MODERN SWIMMING POOLS

WESLEY BINTZ
CONSULTING ENGINEER
LANSING, MICHIGAN

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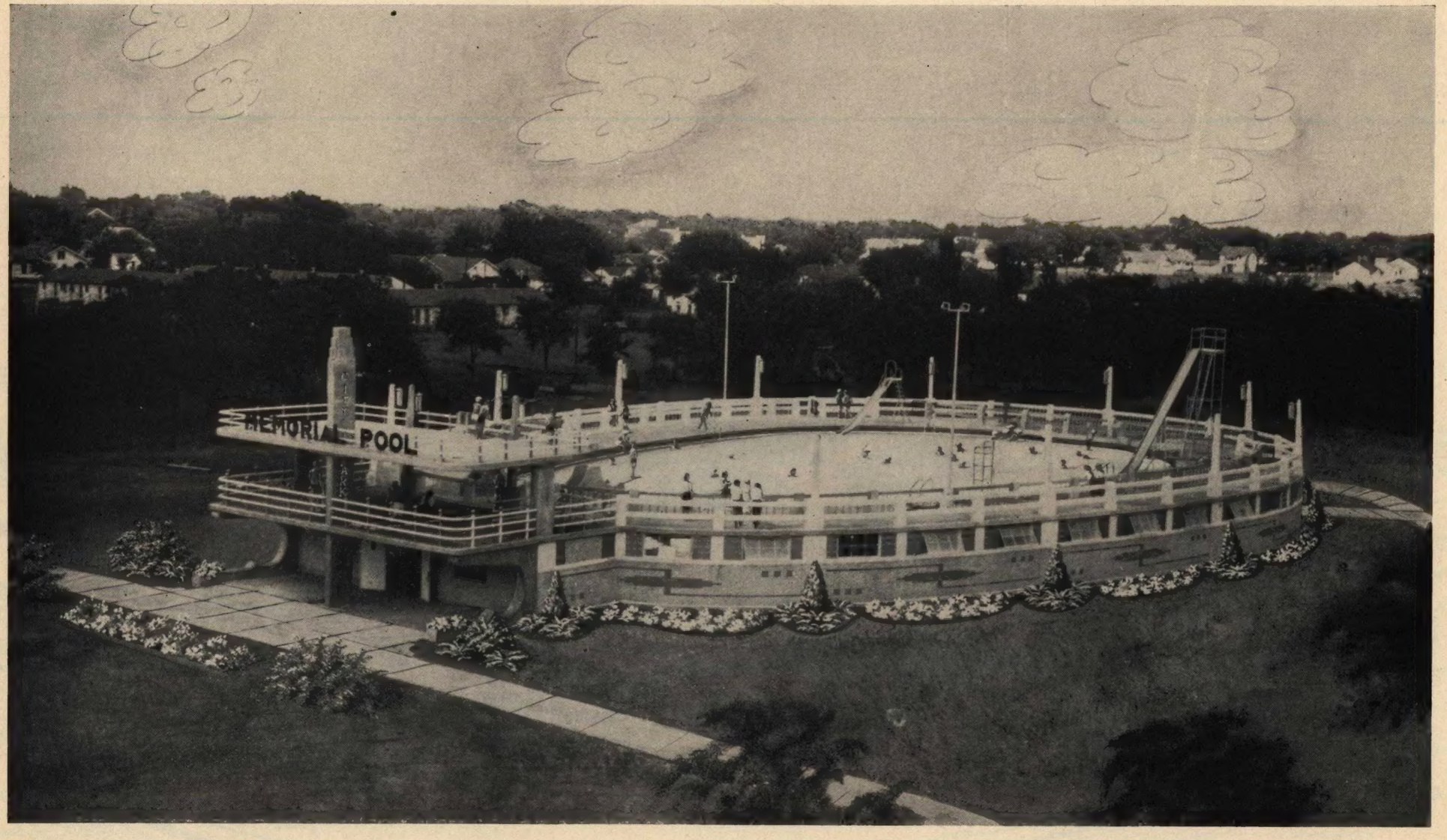
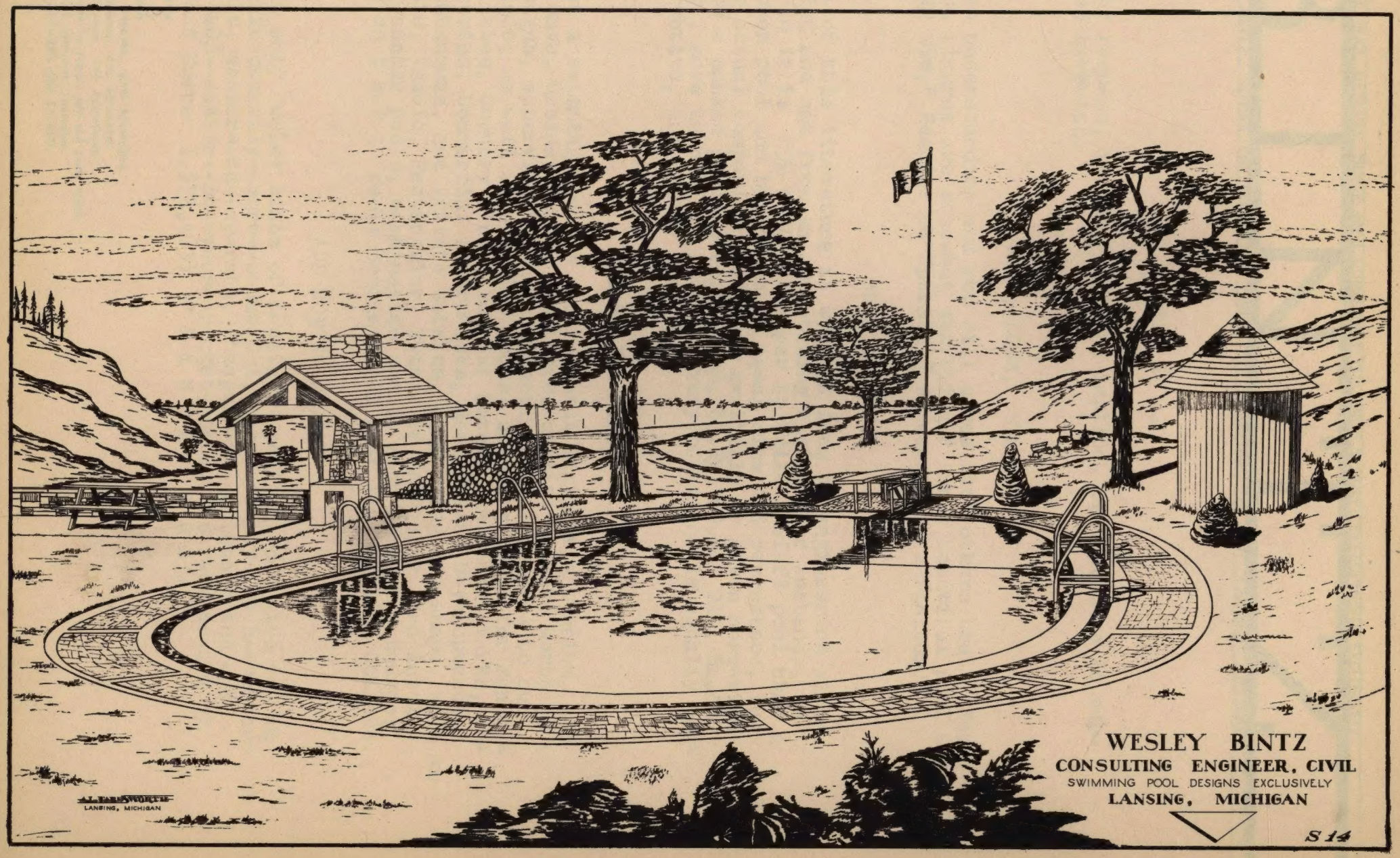


A POOL WITH EXTENDED FRONT, IN THE OVOID SHAPE

This pool 70′ x 105′ Ovoid, was built at Cushing, Oklahoma in 1949. This is a BINTZ POOL, as represented by U. S. Patent No. 1,572,468. The pool has an area of 6,065 square feet, capacity of 1500 bathers daily, a deck around the pool 18′ wide with an area of 6,489 square feet and a bathroom area of 5,949 square feet net. The extended front is used for added lobby, lounge areas, sun deck, band concerts, etc. Note beautiful Landscaping, Architecture, and Unique, Impressive, Dignified, Stately, Imposing, and high Memorial Value of Structure.

WESLEY BINTZ, Consulting Engineer, Civil, 301 S. Washington Ave., Lansing 25, Mich.

Preprinted from SWIMMING POOL DATA & REFERENCE ANNUAL, 1950


WESLEY BINTZ
CONSULTING ENGINEER, CIVIL
SWIMMING POOL DESIGNS EXCLUSIVELY
LANSING, MICHIGAN
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LANSING, MICHIGAN

SWIMMING POOL DESIGNS, SINCE 1923, COMMUNITY BUILDINGS & PARK DEVELOPMENTS EXCLUSIVELY

BINTZ

WESLEY BINTZ, CONSULTING ENGINEER, CIVIL, 301 S. WASHINGTON AVE. LANSING, MICHIGAN

1923 - 1948 A QUARTER CENTURY OF ENGINEERING SERVICE

HERE IT IS

Your request, verbal, written, implied, or tentative is supplied herewith.

STOP, LOOK, STUDY

with understanding and you will agree with others that "Your cost figures are somewhat startling," "Most beautiful pool we ever saw," "easier to operate," et cetera ad infinitum.

AND REMEMBER

all of this literature is written from an engineering viewpoint and not from an advertising basis. For instance, we claim it is 25% to 40% cheaper to build a BINTZ pool than a sunken pool and bathhouse of equal size and permanence, but the actual comparisons of cost available or given here-with show a sunken pool to cost 44.6%, 63.8%, 69.5%, 71%, 64.5%, etc., more than BINTZ pools. Every statement is equally conservative, and easily proved.

BEAR IN MIND

that a swimming pool is a Structural Engineer's problem, and we have, besides pools, over three million dollars worth of designs, supervision, and contracting of structures to our credit, as well as over 110 pools, covering pools for Municipalities, Country Clubs, Tourist Hotels, Amusement Parks, Industries, Commercial Enterprises, Real Estate Developments, Chautauquas, and Private Estates, same being any shape, such as Ovoid, Vasoid, Rectangular, Twins, or Irregular, and involving sunken pools, combination pools, with Community Houses, and "B I N T Z" pools costing well over five million dollars.

AND DON'T FORGET

that only Wesley Bintz of Lansing, Michigan, can give you an architecturally--more--beautiful, structurally--much--better-built, easier--to--operate, cheaper--to--maintain and 25%-to--40%--easier--on--your--pocket--book, (as represented by Patent Number 1,572,463) " B I N T Z P O O L".

SERVICES

"BINTZ POOL", 25%-40% Cheaper, 12-15 Advantages.
"OVOID POOL", 8%-10% Cheaper, 4-5 Advantages.
"VASOID POOL", 6%-8% Cheaper, 3-4 Advantages.
PARK LAYOUTS, with designs for playgrounds and picnic areas.
COMMUNITY BUILDINGS, and associate Structures.
LECTURES with MOTION PICTURES and SLIDES.

INDEX: Sheets in this pamphlet are in the following order.

BINTZ POOL: Streamlined, Extended front #1, with Sun Deck
A SUNKEN POOL, Perspective
TITLE, SHEET, Index

POOL DESCRIPTIONS AND PICTURES:
Model of a BINTZ POOL.
Types of pools by BINTZ
Bintz Pool: What, Why & Where.
Cushing, Okla., See Frontispiece.
Mt. Kisco, N.Y.
Ovoid-Rectangular Comparison with pictures and sketches.
A Rectangular Sunken Pool.
Vasoid Pool: Complete Data.
Private Pool: 40' x 60' Ovoid.
Hackettstown, New Jersey.
Country Club Pool, Part Bintz Pool
Monroe Golf Club, Pittsford, N.Y.
Bintz Pool with Community House.
Indoor-Outdoor BINTZ Swimming Pools
Sunken Pool with Bathhouse, Sketch
Summit, New Jersey.
Wading Pool: with Pergola.
Sunken Pool: Prespective; up to Bintz Pool Standard.
Bintz Pool: Streamlined, Extended Front #2, with Sun Deck.
Community Buildings.

PARK LAYOUTS:
War Memorial Park, 15 acres.

POOL DATA:
Regular: 60' to 90' Ovoids
Regular: 90' to 200' " & Rectang-
DeLuxe: 90' to 165' Ovoids (ular)
Private Pools: 15' to 75' Ovoids
Country Club: 60' to 90' Ovoids
Economical Sunken: 45' to 90' Ovoids
Architectural Perspectives.
Pool Costs. All types and sizes.

*Upon request, or in preparation.
(Go to top of next column.)

POOL LOCATIONS:
Pools Built: Complete List.
Pools Built: Map with description.

COMPARISONS:
Calculated Calumny
Greenfield Ind. and Chillicothe, Mo.
Pictures of each Pool.
Cost comparison between a Bintz Pool & Sunken Pool-Bathhouse.
Indianapolis, Indiana
Louisville-"Proof of the Pudding."
Newburg, New York, 100'x165', Ovoid-Depressed Bintz Pool.
Picture and Data.
Article on Dimensions, Costs, etc.
Paterson, N.Y. & Summit, N.J.
Complete data, Cost, Dimensions and Analysis, Country Club.
TRUTH or CONSEQUENCES

RECOMMENDATIONS:
Dixon, Ill. 80'x120' Ovoid
Fayette, Missouri, 60'x90' Ovoid.
Bintz Pool w Memorial Building
Recommendation Letter
*Jacksonville, Picture & Data.
Jax Sez - Letter
North Tonawanda: Kennett, Mo.
Recommendation: They Say

LITERATURE:
Questions & Answers, 28 of them.
Pool as Memorials
Outdoor vs Indoor Pools
Inquiries; from all over the world
Different Structures Demand Different Specializations
"It Costs to be Ignorant---"
"We'll do our Own Engineering"

INCOME & EXPENSE DATA: 1946

WESLEY BINTZ
National Survey.
Registrations and Memberships.
Scholarship Record.
Engineer, Picture & Data

BINTZ POOLS AND SUNKEN POOLS: (Arranged Alphabetically)

Beaumont, Texas.....	80'x120', Ovoid, Bintz Pool - 1926
" "	45'x90', Rect., Bintz Pool - 1927
" "	70'x105', Ovoid, Bintz Pool - 1938
Canton, Illinois.....	70'x105', Ovoid, Bintz Pool.
Greenfield, Indiana... Picture and Article.	80'x120', Ovoid, Bintz Pool.
New Martinsville, W.Va.	60'x90', Ovoid, Bintz Pool.
N. Attleboro, Mass.	60'x90', Ovoid, Bintz Pool--1951.
Toledo, Ohio.....	60'x90', Ovoid, Bintz Pool combined with 44'x60', 2-Story Community Building.
Wellsboro, Pennsylvania	60'x90', Ovoid, Bintz Pool, Data and Letter
Winston Salem, N.C.	40'x60', Ovoid, Part Bintz Pool.

WESLEY BINTZ

REGISTERED CIVIL ENGINEER

Consulting Engineer, Civil

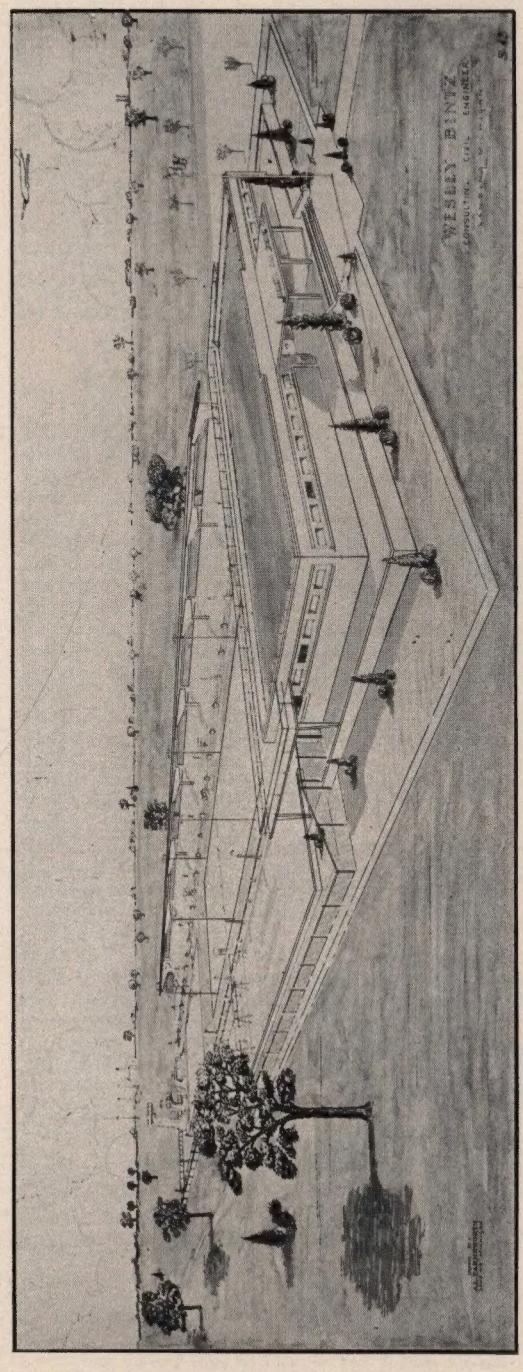
Swimming Pool Designs and Consultation Exclusively

SINCE 1923

BINTZ POOL — PAT. NO. 1,572,463

Lansing, Michigan

B.C.E., M.S. in E. M. Eng. Soc.



SWIMMING POOL DESIGNS, Community and Memorial Buildings, Park Structures and Layouts, and Consultation, Exclusively.

SINCE 1923: A quarter century, Plus, of professional service in the design and operation of swimming pools, exclusively. NOTE: Your pool will be no better than the Plans and Specifications from which it is built, and the Plans and Specifications will be no better than the experience of the man who prepares them.

BINTZ POOLS: As represented by Patent No. 1,572,463, a combination pool and bathhouse, designed and built as one coordinated unit, having 12-15 advantages and a saving of 25% to 40% over the conventional old-style, two unit, sunken pool and bathhouse.

OVOID POOLS: A shape of pool, having four or five advantages and a saving of about 10 percent over the conventional rectangular pool, and can be built as a sunken pool or a BINTZ pool.

VASOID POOLS: A shape of pool, a new idea in pool shapes and layouts, having three or four advantages and a saving of about eight percent over the conventional rectangular pool, and can be built as a sunken pool or a BINTZ pool.

ORIGINAL developments of the BINTZ POOL, OVOID POOL, and VASOID POOL are by BINTZ. Sorry, but others not being able to develop their own ideas are purloining ours. Get the FACTS.

COUNTRY CLUB POOLS: A combination of our BINTZ POOL and our OVOID or VASOID shape will save you 20 to 25 percent on your swimming pool and give you a much more beautiful project.

PRIVATE POOLS: Using our OVOID or VASOID shape, we have developed a design that saves the formwork for the pool wall, and will save you 15-20 percent in the cost of your pool, and give you a much more beautiful job.

SUNKEN POOLS AND BATHHOUSES: The sketch on the left is a combination dual-pool, bathhouse, play area for the bathers, sun-deck, and grand stand, now being built in a southern city. We can give you any size, shape, or cost.

"ANYTHING in swimming pools" is our motto, BUT nobody, including ourselves, can beat that economical, and beautiful combination of a BINTZ POOL and OVOID or VASOID POOL.

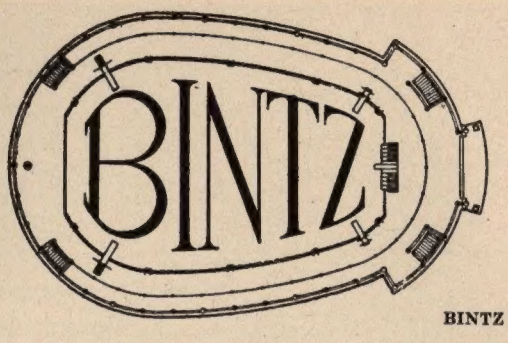
A SWIMMING POOL is not a hole in the ground, but more complicated in design, in certain ways, than a water treatment plant, or a sewage disposal plant. It is strictly an engineering project, and requires years of experience to properly design, specify, detail and coordinate pool, bathhouse, concourse floor and equipment.

INEXPERIENCE, at any price, is COSTLY. EXPERIENCE, at any price, is CHEAP.

"MODERN SWIMMING POOLS": Our 70-page pamphlet covering all of the above with dimensions, quantities and costs for all sizes, shapes and kinds of pools, with actual photographs, and other miscellaneous data is FREE upon request.

Reprinted from the 1949 Municipal Index

We design anything in Swimming Pools. We will design a sunken pool and bath house if you want it. Our experience counts just the same.



WHAT WHY WHERE

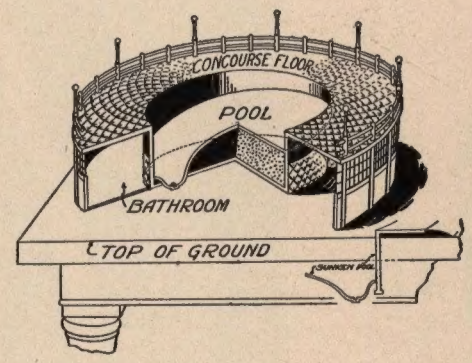
IS A BINTZ SWIMMING POOL

BINTZ POOL—PATENT NO. 1,572,463

WHAT

A BINTZ SWIMMING POOL is just like an inverted straw hat lying on the table (See Sketch). The table represents the ground. The pool proper is in the crown of the hat, and the bath-room is under the rim of the hat. Fill up the crown with a filler until you get the right and proper depth of water and you have the pool. Put a wall, with plenty of windows and a few doors, around and under the outside edge of the rim of the hat to enclose the space under the rim and you have the bath-room. Now, put in stairways for bathers and spectators, men and women, so that they can get from the bath-room to the pool promenade or vice-versa, put a rail around and on top of the outside edge of the rim of the hat, add a multitude of details and experience and you'll have a BINTZ SWIMMING POOL.

Now, NOTE, that the wall of the pool becomes one side of the bath-room and the spacious, wide concourse, floor or deck around the pool becomes the ceiling of the bath-room. This makes for a single compact unit of construction in the Bintz Pool in place of the ordinary two separate and distinct units in the common type sunken pool, namely the pool and the bath-house. In a BINTZ POOL two sides of the pool become two sides of the bath-room. THERE is the real economy in the construction costs of a BINTZ POOL. Patented. The SAVING, therefore, in a BINTZ SWIMMING POOL is REAL.



WHY

Points and Advantages of Bintz Swimming Pools
as compared with Common Type Sunken Pool and Bath-house

1. **CONSTRUCTION COSTS—less by 30% to 50% due to unit construction.**
2. **EXCAVATION — with grade, about one-third of usual amount, reduces cost.**
3. **ENCLOSURE—Architectural wall in place of unsightly fence. Increases beauty. Decreases cost.**
4. **DRAINAGE—Pool sets about eight feet higher, allowing access to shallow sewers. Shallow sewer line decreases cost.**
5. **FROST ACTION—Pool up out of ground, requiring less subdrainage, greatly reduces damaging frost action. Fully subdrained and reinforced against freezing. Less upkeep. Less Cost.**
6. **POOL WALL—Because pool wall is one side of bathroom, all inlet and outlet pipes, scum gutter drains, underwater lights, observation windows (Only possible with a Bintz pool), etc., can be serviced directly. Hence: Easier and cheaper maintenance. Less initial cost.**
7. **COMPACTNESS—One unit construction to take the place of two units, saves all land required by usual bathhouse. One-third less land required. More land available for other play areas. Larger pool possible on given area. Less land Cost.**
8. **CONSTRUCTION—Pool and bathroom and a great deal of equipment are all reinforced concrete, no wood. Upkeep, repairs and maintenance are negligible. No-Rot, No-Rust, No-Decay.**
9. **SURFACE DIRT—Windblown dirt less by 95%. Less operation Cost.**
10. **OPERATION—Compact, single-unit layout and other special features and facilities provide the utmost in ease and economy of operation, and convenience to users—Utopia for the pool operator!**
11. **ARCHITECTURALLY—more beautiful, more attractive, pleasingly different, better landscaping possibilities, Streamlined, T O P S .**
12. **SHAPE—Any shape—Ovoid, rectangular, irregular, etc.**
13. **SIZE—Any size, 1,000 Sq. Ft. to 100,000 Sq. Ft.**
14. **BATH-ROOM—50% to 200% larger and all permanent construction.**
15. **EQUIPMENT—especially designed, a great deal concrete. Pool and bathroom completely equipped.**
16. **RECIRCULATION—especially designed for BINTZ pools only.**
17. **MAINTENANCE—Permanent, all concrete construction and efficient functional design reduces maintenance to a minor item.**
18. **DESIGN AND LAYOUT—perfected after years of experience. No Bugs. Less Cost.**
19. **ECONOMICALLY—greater returns on investment. Less cost—larger income.**
20. **TOTAL COST—less by 20% to 35% due to unit Construction. Numerous comparisons, proving same, upon request.**

WHERE

Installations & Contracts

POOLS BY BINTZ: 4/1/48, 105 Total, $5,242,100 Value;
POOL TYPES: 68 Bintz Pools, 10 B. P. w. Headhouse, 14 Part Bintz Pools, 10 Sunken Pools, 3 S. P. w. Bathhouse, 105 Total;
POOL SHAPES: 3 Irregular, 89 Ovoid, 13 Rectangular;
WADING POOLS: 68 With Pool, 20 Separate, 88 Total;
POOL OWNERS: 2 Amusement Parks, 1 Chautauqua, 5 Commercial, 16 Country Clubs, 2 Industrial, 69 Municipal, 7 Private Estates, 1 Real Estate Dev., 2 Tourist Hotel, 105 Total;
POOLS LOCATED IN: 94 Cities, 25 States;
CITIES WITH: Three Pools 4, Two Pools 3, One Pool 87.

The above gives some totals like: 713,155 Sq. Ft. of pool, a matter of 16.37 acres, or a pool one mile long and 136 feet wide. It means we can take care of 53,769 people at one time, or 178,995 people in a day, and to date (30 years) have given swims to about 38,665,247 people in Bintz Designed Swimming Pools.

For information on any type of Pool, or for 70-page Pamphlet with "Bintz Pool" and "Ovoid-" and "Vasoid-" shaped pool data, New Fronts, Community and Memorial Buildings, Sunken Pools with Bathhouses, Private, Country Club and Wading Pools, Park Developments and Layouts, Detailed data and costs on about 40 pool sizes, Estimates, Listings, Recommendations, Special Literature, Income and Expense Data, complete information on 21 particular pools, Pictures, etc., write to:

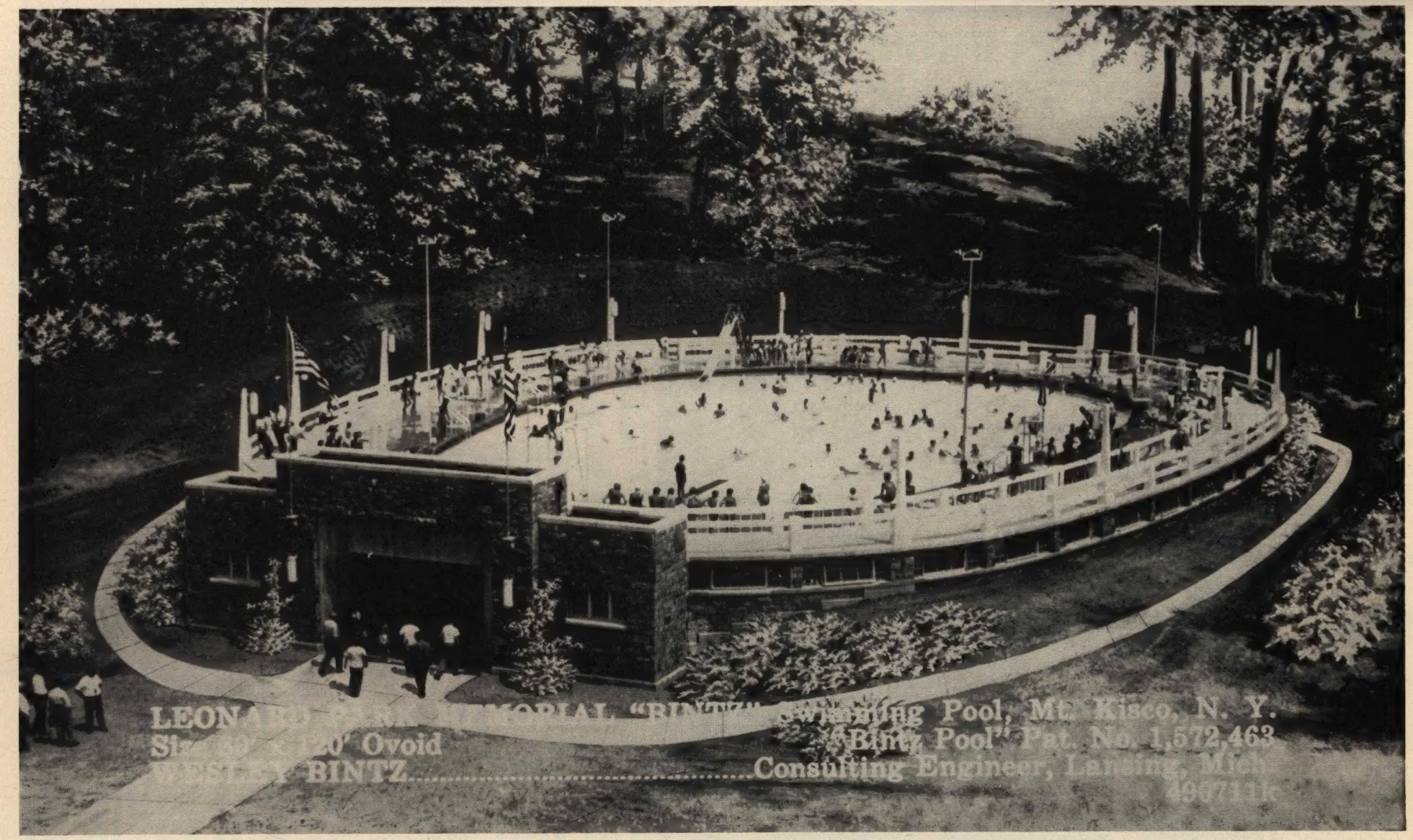
WESLEY BINTZ
CONSULTING ENGINEER, CIVIL
Swimming Pool Designs and Park Developments
Exclusively Since 1923 . . . 301 S. Wash. Ave.,
Lansing 25, Michigan

Bintz Swimming Pools are handled professionally on a commission basis only. Local contractors, local labor, local material and local money actually construct the pools.

Bintz Swimming Pools are handled professionally on a commission basis only. Local contractors, local labor, local material and local money actually construct the pools.

We design anything in Swimming Pools. We will design a sunken pool and bath house if you want it. Our experience counts just the same.

Reprinted from 1948 Swimming Pool Data & Reference Annual



A MEMORIAL POOL IN THE OVOID SHAPE

This BINTZ POOL, built at Mt. Kisco, New York, in 1949, has a beautiful cut stone and limestone front with large Memorial plaque, and represents real beauty as a memorial project. The pool is 80′ x 120′ Ovoid with 8,157 square feet area, concourse floor 19′ wide with 8,021 square feet area, and bathroom with 7,289 square feet net. Note adaptation to hillside location.

WESLEY BINTZ, Consulting Engineer, Civil, 301 S. Washington Ave., Lansing 25, Mich.

Preprinted from SWIMMING POOL DATA & REFERENCE ANNUAL, 1950

Relation of Swimming Pools

Ovoid to Rectangular

A FEW AXIOMS IN SWIMMING POOL CONSTRUCTION AND OPERATION

1. The cost of any swimming pool varies directly as to the length of the pool wall.

2. The capacity, in bathers, of any swimming pool, varies directly as the area of the wadable, waist-depth portion, namely not less than three feet nor not more than five feet deep.

3. Water in any swimming pool between twelve or eighteen inches deep up to three feet deep is waste of water, too deep for children, too shallow for adults.

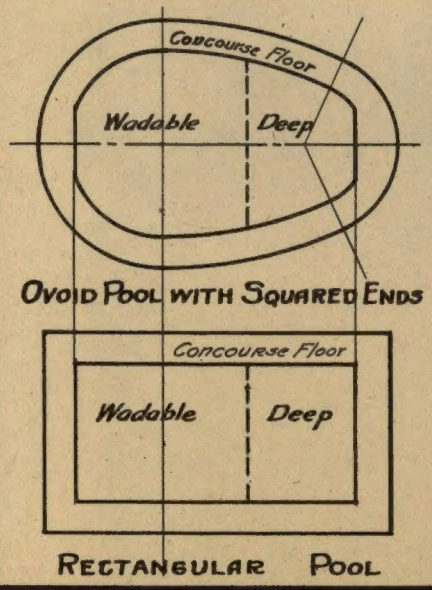
4. Ideal water depth proportions are: For Children, separate from the Main Pool, under 18" deep, 5%; Wadable, 3' to 5', 80-85%; Deep, 5' to divable, 20-15%. This ideal proportion can only be realized in large pools, because no matter what the length of the pool may be, it takes from 30' to 40' for the deep end.

5. Pools, having small ends, such as Ovoids, triangulars, etc. placing the deep end of the pool in the small end of the pools, can approach this ideal proportion closer than the rectangular pools.

6. In a rectangular pool, when holding aquatic meets, the two outside swimming lanes are the handicap lanes, There are no handicap lanes in the Ovoid pool, which has been prepared for aquatic meets with squared ends.

COMPARISON BETWEEN OVOID AND RECTANGULAR POOLS.

	Ovoid	Rectangular	Percent Increase. Ovoid	Rect.
Pool - Proper, Feet	60 x 90.	45 x 90.		
- Area, Square Feet	4,419.6	4,044.5	9.3%	
- Volume, Gallons	152,528.	150,584.	1.3%	
- Length, Wall, Feet	247.5	270.0		9.1%
- Wadable, 5'or less, Sq.Ft.	3,412.7	2,697.3	26.5%	
- Deep, 5'or deeper, Sq.Ft.	1,006.9	1,347.3		33.9%
- Wadable, 5'or less, %	77.2	66.7		
- Deep, 5'or deeper, %	22.8	33.3		



EXPLANATION: Assuming that the entire pool is for adults, putting the children's wading pool outside of the main pool area, a more ideal arrangement than making the wading pool a part of the main pool YOU WILL NOTE FROM THE ABOVE THAT:

1. The Ovoid is almost a tenth larger;

2. The Ovoid has a pool wall almost a tenth shorter, and, not shown by comparison but also one-third cheaper to build;

3. The Ovoid has over one-fourth more wadable depth;

4. The Ovoid pool approaches closer our ideal proportions, of wadable and deep water; and

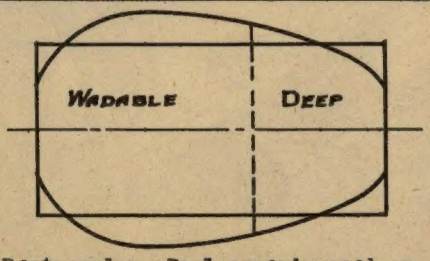
5. The Ovoid pool is better adapted for aquatic meets, for both contestants and spectators.

THEREFORE: From the above figures, the OVOID (any given size) is better than the RECTANGULAR. as follows: Larger, shorter and CHEAPER-TO-BUILD pool wall, much larger wadable area, better depth proportions, and better for all aquatic meets. These advantages indicate that the OVOID POOL is easily one-third more efficient type of pool to build.

WHERE would you use each type of pool?

The OVOID should be used in parks, where there are winding walks, drives and flower beds, to conform to natural conditions, for more economical construction, etc.

The RECTANGULAR pool should be used where the pool is bounded closely on two or more sides by buildings, walks, streets or any other rectangular limitations.



Rectangular Pool superimposed on Ovoid Pool. Note how Ovoid cuts corners. Note how Rectangular adds deep area, cuts off wadable areas

WESLEY BINTZ MS. in E., B.C.E., REGISTERED CIVIL ENGINEER

Consulting Engineer, Civil

Swimming Pool Designs Exclusively

BINTZ POOL—PAT. NO. 1,572,463

Lansing, Michigan

A RECTANGULAR SUNKEN POOL

This pool was built at Olympia Fields, Illinois. Here is a beautiful development in a sunken rectangular pool with purification system integral with the pool, with bath-house facilities adjacent, and an open-air restaurant overlooking the pool.

WESLEY BINTZ, Consulting Engineer, Civil, 301 S. Washington Ave., Lansing 25, Mich.

Preprinted from SWIMMING POOL DATA & REFERENCE ANNUAL, 1950

VASOID POOL, DESCRIPTION OF

AND COMPARISON WITH OVOID AND RECTANGULAR POOLS

THE VASOID POOL represents a recent further engineering step by Bintz in the development of handsome, efficient and economical swimming pools. It highlights appropriately our 30th year of pool design and the 25th ANNIVERSARY OF SPECIALIZATION in the Swimming Pool Field.

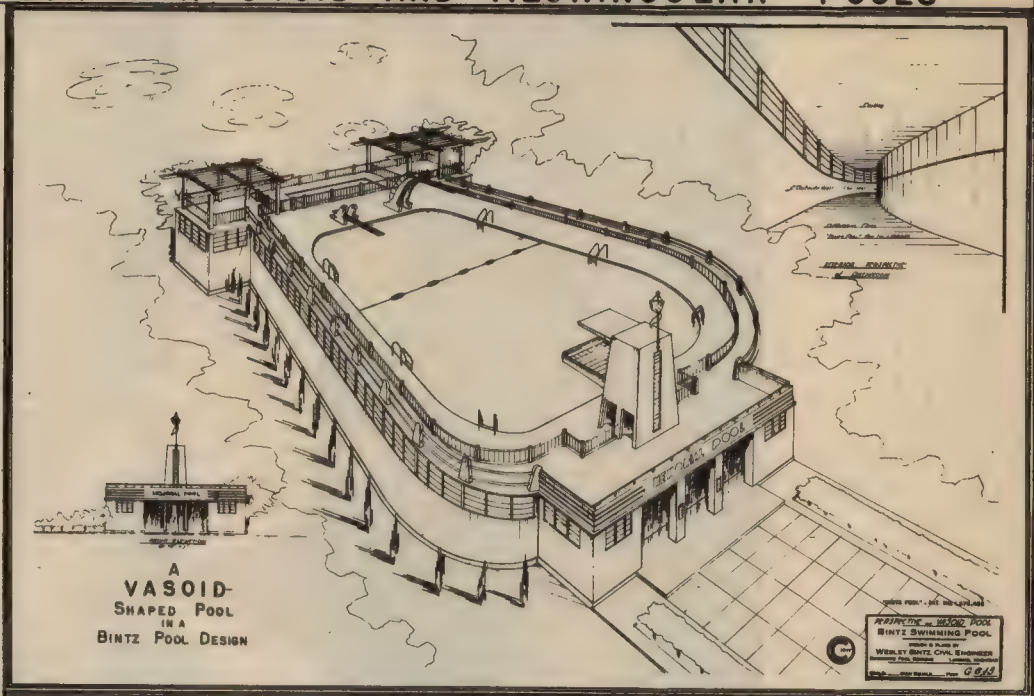
Bintz innovations over this QUARTER of a CENTURY are:

FIRST: the "BINTZ POOL" - a functional and engineering improvement. For some 2000 years pools were built separate from their bathhouse. The Bintz Pool combines these, with all necessary equipment, in a single coordinated unit. In addition to 12-15 other distinct advantages; this unit design effects a proven saving in construction costs of from 25% to 40% over the conventional sunken pool and bathhouse. The Bintz Pool can be built Rectangular, Ovoid, Vasoid, or any other shape. See complete description in "What, Why & Where".

NEXT: the "OVOID POOL" - an artistic new pool shape. Formerly nine out of ten pools were rectangular. In the design of the Ovoid Pool artistry has been added to sound engineering to produce a handsome appearance. Besides 4-5 distinct advantages of this shape over the conventional rectangular shape, is a saving of about 10% in cost, and water area about 10% larger. The Ovoid is a shape and can be built as a sunken type or as a Bintz Pool. See "Ovoid-Rectangular Comparison".

NOW: the "VASOID-shaped POOL" - described and illustrated herewith, in a Bintz Pool Design a form of outstanding eye-appeal. With its new exterior treatment, new layout and added facilities, the VASOID-shaped Pool establishes anew level of distinction in swimming pool architecture. Like the Ovoid, the Vasoid shape canbe built as a sunken pool aswell as a Bintz Pool.

Notes: The table herein compares the Vasoid shape with the Ovoid and Rectangular shape. Read "Axioms in SwimmingPool Operation" in "Ovoid-Rectangular Comparison". Tables will be more understandable.



A VASOID-SHAPED POOL IN A BINTZ POOL DESIGN

COMPARISON OF POOL AREAS, VOLUMES, LENGTHS, AND DEPTHS.

POOL-	RECTANGULAR	%	VASOID	%	OVOID	%	VASOID %	OVOID %	NOTE
-Size, Feet	45 x 90		60 x 90		60 x 90				a
-Area, SqFt.	4,028.5	100	4,396.8	109.2	4,434.9	110.1	100	100.9	b
-Volume, Gallons	175,903.	100	180,915.	102.8	175,336.	99.7	100	96.9	c
-Av.Depth, Feet	5.838	100	5.501	94.2	5.285	90.5	100	96.1	c'
-Length Wall, Ft.	270	100	258.4	95.7	248.4	92.0	100	96.1	d
-Straight Wall, Ft.	270	100	176.1	65.3	42.5	15.7	100	37.1	d'
-Depth, 3'-4', SqFt.	1,226.7	100	1,502.4	122.4	1,535.4	125.2	100	102.2	e
-Depth, 4'-5', "	1,237.5	100	1,452.0	117.4	1,580.2	127.7	100	108.8	e'
-Depth, over 5' "	1,564.3	100	1,442.4	92.2	1,319.3	84.3	100	91.5	e"
-Squared Ends	35.0	100	24.0	68.6	21.3	60.9	100	88.8	f

a: The Pool dimensions given reflect thirty years of experience in pool proportioning. Ovoid and Vasoid forms are the result of many studies. Rectangular pools shouldhave a width ofnot over half their length.

b: The Rectangular Pool in this comparison is set up as 100%. Then the Vasoid is 109.2% and 9.2% larger and the Ovoid 10.1% larger.

c and c': The efficiency of any pool design depends upon the proportions of deep and shallow water areas. Maximum efficiency and therefore least average depth for 80% wadable(3'-11' deep) pool area would be 5.1 feet. The Vasoid is here shown tobe muchmore efficient thanthe Rectangular pool. Observe that average depth reduces with larger pool are..

d and d': The Vasoid, compared to the Rectangular, is not as efficient asthe Ovoid in shortness of pool wall, but it does havemore straight wall.

e, e' and e": Ideal conditions dictate that 80% of the pool area should be between 3' and 5' deep. Note the Vasoid is much more efficient than the Rectangular.

f: For aquatic meets the Rectangular pool is usually themost efficient, requiring fewer heats. For example: using the 90 foot pools, and with 7' and 5' lanes, aquatic meets with 9 contestants would require:

	Rect.	Vasoid	Ovoid
7 foot Lanes			
Elimination	2	3	3
Final	1	1	1
Total Heats	3	4	4
5 foot Lanes			
Elimination	2	2	3
Final	1	1	1
Total Heats	3	3	4

PERCENTAGE OF DEPTHS TO OWN AREA.

	Area	3'-4'	4'-5'	5' up
Rectangular	100%	30.6%	30.7%	38.9%
Vasoid	100	34.2	33.0	32.8
Ovoid	100	34.6	35.6	29.8

Recreational authorities say this feature is relatively unimportant since meets in most pools are only held but once or twice a season. It is far outweighed by the advantages possessed by both the Ovoid and Vasoid pools.

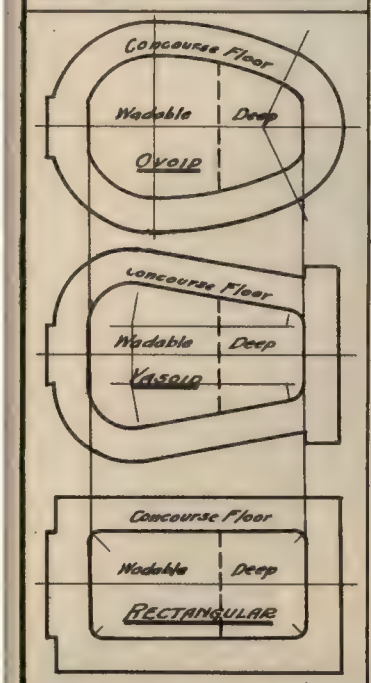
Conclusions: 1. The Vasoid is a more efficientshape than the Rectangular.

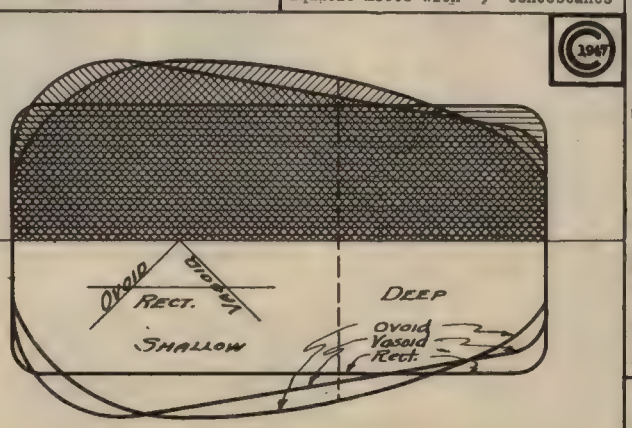
2. The Vasoid has a greater proportion, to its own area, of 3'-4' depth water.

3. The Vasoid has more straight wall to build than Ovoid. (Curved Walls of large radii are not hard to build. Our plans show complete details of this construction.)

4. A new shape, Efficient, Modern, up-to-date, Distinctive, Memorialistic. Has an entirely new bathroom layout and arrangement.

The BINTZ POOL is patented.
The VASOID data and shape are copyrighted.





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~ WESLEY BINTZ ~
CONSULTING ENGINEER. CIVIL
Swimming Pool Designs and Park Developments
Exclusively Since 1923 . . . Lansing Michigan

A PRIVATE POOL IN THE OVOID SHAPE

This pool is 40′ x 60′ Ovoid, has an area of 2,096 square feet, with flagstone walk around the pool. It has a diving area. The economical Ovoid shape was originated and developed by Bintz. This pool is built near Hackettstown, New Jersey. The *Ovoid shape* can be used either in a sunken pool or in an elevated BINTZ POOL; is more easily landscaped, and adds beauty at low cost to estate.

WESLEY BINTZ, Consulting Engineer, Civil, 301 S. Washington Ave., Lansing 25, Mich.

Preprinted from SWIMMING POOL DATA & REFERENCE ANNUAL, 1950

WESLEY BINTZ, P. E.

REGISTERED CIVIL ENGINEER

Consulting Engineer, Civil

Swimming Pool Designs and Consultation Exclusively

SINCE 1923

as represented by BINTZ POOL—PAT. NO. 1,572,463

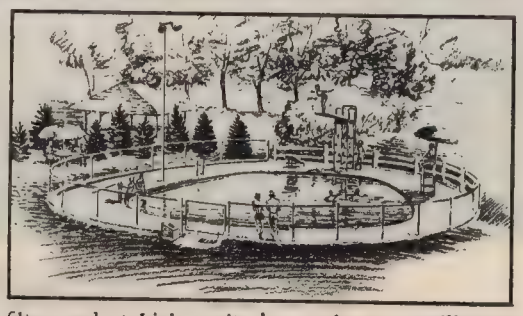
B.C.E., M.S. in E. M. Eng. Soc.

Lansing, Michigan

• "The Monroe Swimming Pool is unique in design, incorporating the most desirable features drawn from the many years of experience of Mr. Wesley Bintz of Lansing, Michigan, who served as the consulting engineer on the project. The naturally sloping terrain enabled the incorporation of the locker and equipment rooms under the deck at the deep end of the pool. The ovoid shape with squared ends for racing provides a relatively larger area in the more actively used shallow end of the pool with adequate diving space in the deep end.

"The pool is of re-enforced concrete and concrete block construction, 60 feet long with a maximum width of 40 feet. It is divided into two areas of equal length, the shallow end sloping uniformly from a water depth of 3 feet at the end wall to 5 feet at the midpoint of the pool marked by a floating guard rope. From here the floor is smoothly contoured to a large oval section in the diving area with 10 feet of water. The pool has a surface area of nearly 2000 square feet and is surrounded by a concrete deck 10 feet in width, providing an over-all rated capacity of 136 bathers at any one time. There are two diving boards, a low, one meter board and a high, three meter board.

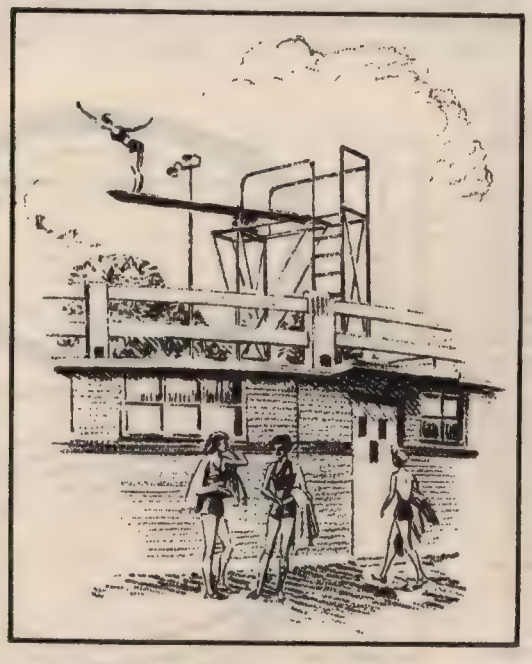
"The pool holds almost 100,000 gallons of water which is maintained at high clarity by continuous circulation, with complete turnover in less than 8 hours, through a highly efficient diatomaceous earth

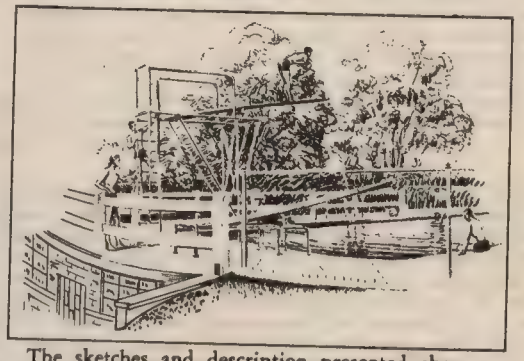


filter, and at high purity by continuous sterilization with controlled addition of hypochlorite. A small amount of make-up water is added to offset normal losses and to maintain an overflow. The circulation, filtration and sterilization systems are located in the Equipment Room underneath the deck in the diving board area.

"Locker rooms complete with all facilities extend at ground level under the deck along one side of the pool. Adjacent to the Equipment Room is the Men's Locker Room with 60 lockers, adjoined by a larger Women's Locker Room having 90 lockers.

"For the sake of safety the pool deck is completely encircled with a fence having only one entrance at the shallow end of the pool."

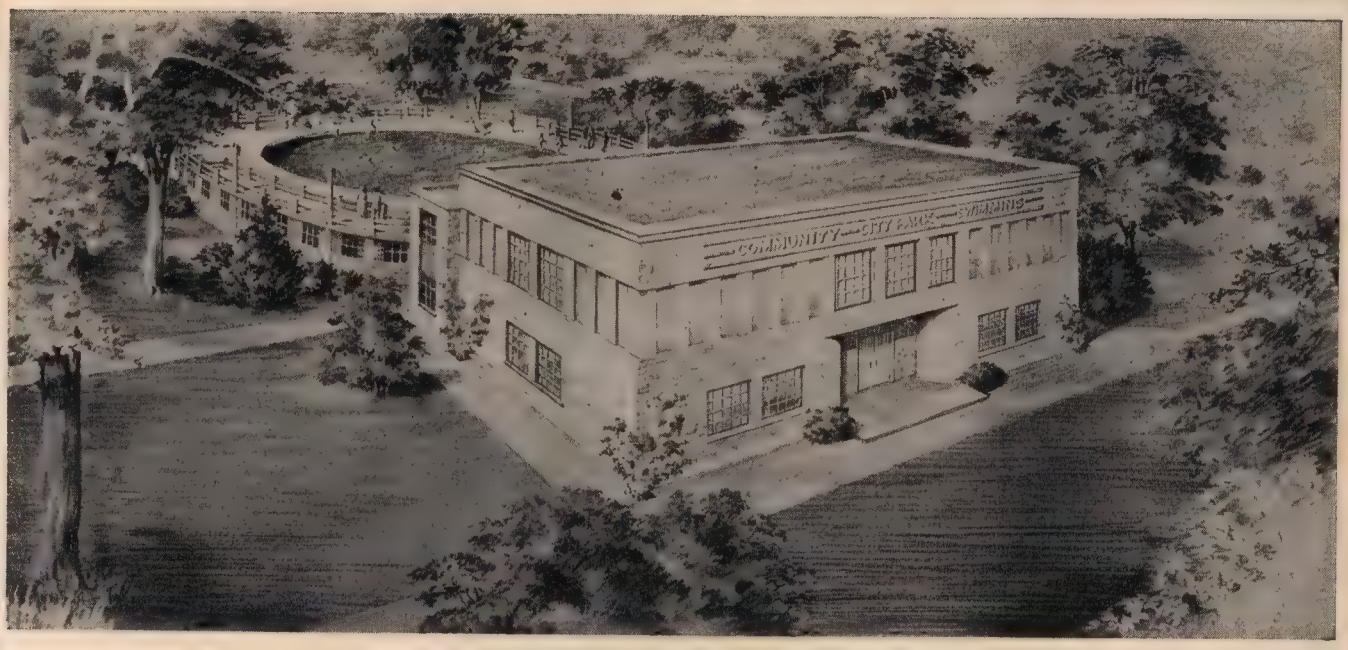




The sketches and description presented above are reprinted from a report by the Board of Directors of the Monroe Golf Club, Pittsford, New York.

Though this Part "Bintz Pool" (a combination pool and bathhouse) was designed primarily for country club use, the basic idea is also applicable for many municipal pool sites where sloping terrain is encountered.

Location of bathhouse under the pool deck on the downhill side has resulted in a reduction in cost up to 25% as compared with a sunken pool and separate bathhouse of equal size, permanence, detail and equipment. Other proven "Bintz Pool" advantages accrue where the pool and bathroom are combined.

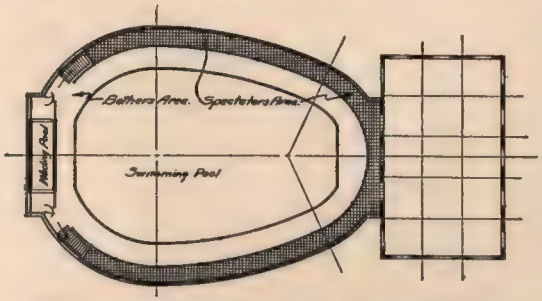


COMMUNITY RECREATION CENTER

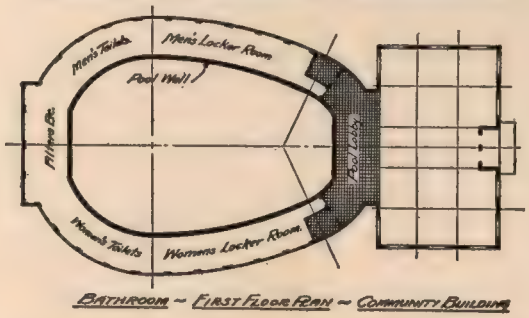
Developed by WESLEY BINTZ

Pictured above (built 1948) is our newly devised, highly economical, exceptionally beautiful, versatile and distinctive center for Recreational and Community activities making available "Private Club Accommodations" for the entire community. It extends to community functions the coordination idea which has made the Bintz Swimming Pool so outstandingly popular.

Economy is the essence of this design. It had to be, since it starts with the Bintz Pool—a patented design in which the swimming pool, spectators gallery, bathhouse facilities and mechanical equipment are brought together in a single coordinated unit. This Unit effects a saving in cost of 25% to 40% over the multiple-unit separate pool and bathhouse, and provides many conveniences and advantages.



SWIMMING POOL—SECOND FLOOR PLAN — COMMUNITY BUILDING



BATHROOM — FIRST FLOOR PLAN — COMMUNITY BUILDING

Now, see sketch, a Community Building and a BINTZ POOL, (sketch shows 10% cheaper OVOID-shape) complement each other advantageously and economically thru dual usefulness of same areas. The Community Building, with first floor laid out with Boy and Girl Scuot Rooms, Teen-age Lounge, Coke Bar, Office, Secretariat, First-Aid, Heating, Storage, Spacious Lobby, Trophy cases, and stairway to second floor (or any other arrangement desired—A City Hall in one instance) would tie in directly and immediately with the first floor of the Bintz Swimming Pool. The First Floor Plan of Pool Bathroom has a Pool lobby, Men's and Women's locker rooms, toilet rooms for bathers and public, and the filter and control room. In the Pool lobby, x-hatched, will be counters, shelving, office, first-aid Room, Toilets and other floor space which would have to be provided in the Community Building, if it were not available in the Pool lobby. This layout, therefore, actually increases the size of the First Floor of the Community Building (28% as shown) and at no extra cost.

On the Second Floor Plan, the Community Building with stairway, concession and/or kitchen, lounge, lobby and general assembly floor divided by a sliding partition (or any other arrangement—Offices and Committee Rooms) ties in directly with the spectators area around the Swimming Pool. For Social activities, the Community Building floor is immediately increased in size by the cross-hatch area on the Concourse floor around the pool (56% as shown) and at no extra cost. Each, pool and community building, enhances the popularity of the other.

Obviously, in total, the Community Building combined with a "BINTZ POOL", is increased in its usefulness and efficiency by as much space as it gains from the BINTZ Pool (42% as shown) and at the same time reduces the cost substantially.

Many of our clients are building Swimming Pools and/or Community Buildings as Memorials. There is nothing more appropriate to promote health, provide wholesome outlets for youthful energy, and develop community spirit.

Our 25 years — a quarter century — of specialized experience in this field of Swimming Pool, Community, Memorial and Park Buildings, Park Layouts, and Consultation Exclusively are at your service. A 70-page Swimming Pool Pamphlet, covering this field in its entirety, is free upon request.

WESLEY BINTZ, Consulting Engineer, Civil, Lansing, Michigan

Reprinted from 1948 Swimming Pool Data & Reference Annual

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A Practical Solution to

INDOOR-OUTDOOR SWIMMING POOLS

By Wesley Bintz

Copyrighted 1951

"Why can't we enclose our pool and use it all year 'round?" This question invariably comes up at the close of the lecture, slide and motion picture session we give to our prospective clients. Due to the time involved in answering it, we can't always do the question justice. Here we'll take the time to show how impractical it is to build a so-called indoor-outdoor pool, and our solution to the problem.

First the question, WHY? Swimming as a participating sport, takes, we believe, second place only to bowling. A maximum day in a swimming pool will represent seven to ten percent of the total population of a community which has swimming facilities built up to its sufficient use. Note the last three words. That's a lot of people. So, for a city or community with a population of 50,000, about 3500 to 5000 people will use the pool on a good hot day. Can you imagine that many people on the golf course, or playing tennis, bowling, shuffle board, or any other sport? Sure can't.

With that many people wanting to participate in any sport, it is good "politics", as well as good "Recreation", to supply the facilities if at all "possible". And that word "possible" usually means, "Where is the money coming from?"

Man-use costs are interesting at this point. Although the overall cost of swimming pools may be high, they by no means represent the highest cost for a place per person to play. To illustrate: A tennis court costing about $3,000 accommodates four people, and hence costs $750 per person for a place to play. Golf courses, due to high land and club house cost will cost about $1,000 to $3,000 per person for a place to play. A shuffleboard court will cost about $50-$75 per person for a place to play. Other courts and equipment cost more or less. Now a good modern swimming pool will cost about $150-$300 per person in usable capacity at any one time. This figure is about one-third of tennis courts costs, and a ninth of golf course costs per person. Of course, except in very large cities, you have to put all of your eggs in one basket at one time with a pool, whereas with tennis courts you can build a few this year, and more another year.

Let us interpolate here with two thoughts; First, it makes quite a bit of difference whether one is talking about small cities where one pool will serve the community, or large cities requiring two or more pools, and second, whether one is talking about cold or warm climates. Obviously, the same reasons don't apply quite so well in all cases, but in general, the thoughts brought out in this article apply. So, you big cities can stay out of this Indoor-Outdoor talk until you get yourself enough outdoor swimming pools to handle the total summer crowd.

Now, WHY, the question? It revolves around the fact that where most facilities can be used all the year, or at least from early spring to late fall, an outdoor swimming pool has its use through the warm three or four summer months only, or maybe six months at the most in the warmer climates. Even in warm climates, swimming pools are closed down on account of school days. And so, "Why not build an enclosed pool and use it the year around?" That is sensible, sounds reasonable, and WHY NOT?

USE and COSTS are the reasons. Let's examine USE. Most pool records indicate that swimming is the one sport where weather controls the participation thereof. If you want to play tennis and it is cold, you put on a sweater, and if hot, you take off your shirt. But with swimming, if hot, your pool will have maximum use, and if cold, people stay away in droves. We have seen pools loaded to capacity on a hot, muggy, summer day, and then a refreshing rain cools things off around suppertime. It is still 70-75 degrees warm, but take a look at the pool: A dozen water-dogs or polar-bears are the extent of the pool use. And so, if people don't use the pool when it is cool in the summer, why expect them to use it when COLD, i.e., fifty above or five below or so? They don't. They go sledding, or skiing, or skating, or bowling, or dancing instead. In the South, that only applies partially. So for USE: (For the same number of people) A pool large enough to take care of the summer crowds would be almost deserted at times, and never over one fourth full, in the winter time; while a pool built for winter use would be entirely inadequate for summer use and would be sure to create dissatisfaction. There is no happy medium here. No siree!

Large cities claim this reasoning doesn't work. Well, take any large city, population 2,000,000, and not built up with pools to outdoor or summer capacity. We find that about 1 in 100 wants to use the pool in the winter. That still makes 20,000 wanting to use indoor pools in that city. With a maximum capacity of about 600 patrons per pool per day, this city could fill up 33 in-

door pools. But our town of 50,000, with one and only one outdoor pool to accommodate 3500 for a summer day, would require only a 500/day capacity indoor pool for winter use. Now does it make sense to take a 3500/day capacity pool and enclose it to take care of 500/day maximum usage, at 50 times the man-use cost? You answer it!

And how about CONSTRUCTION COSTS? The minute the pool is enclosed, construction costs are easily doubled with superstructure, tile, heating, ventilating, etc. Such a pool, 42′ x 75′ with two walls opening up with double doors, spaced 3′ apart to keep down condensation, no removable roof, cost a large city (1950) $400,000.00. BUT do you double the use? Attendance figure indicate that you'll have no more, and probably less pool patronage in the combined fall, winter and spring nine months, than you'll have in the warm three summer months. You've doubled costs, but you haven't doubled attendance.

And how about OPERATION COSTS? This really gets serious. You more or less double operation costs as well as building costs in the enclosed pool over the outdoor pool, with pool size remaining constant. When you consider that you have to heat the building, ventilate it, heat the water, and man the pool, i.e., you must have a life guard on duty whether you have one patron or one hundred, and you do all this for three times as long (fall, winter, spring) as you do for summer use, it really means that to provide that swim in the winter as compared to the summer costs you just about—well, let's see: *double* cost, *double* operating expenses for *three* times as long, and have about *one tenth* as many people (that's generous) using the pool. You get 2 x 2 x 3 x 10 or 120 times as much per person for Man-Use cost. Let's be generous and call it fifty times as much. Is it worth it? Got the money? There are other reasons for not making an indoor pool out of your outdoor pool. The indoor pool is used almost exclusively for controlled bathing whereas the outdoor pool is used almost exclusively for uncontrolled recreational bathing.

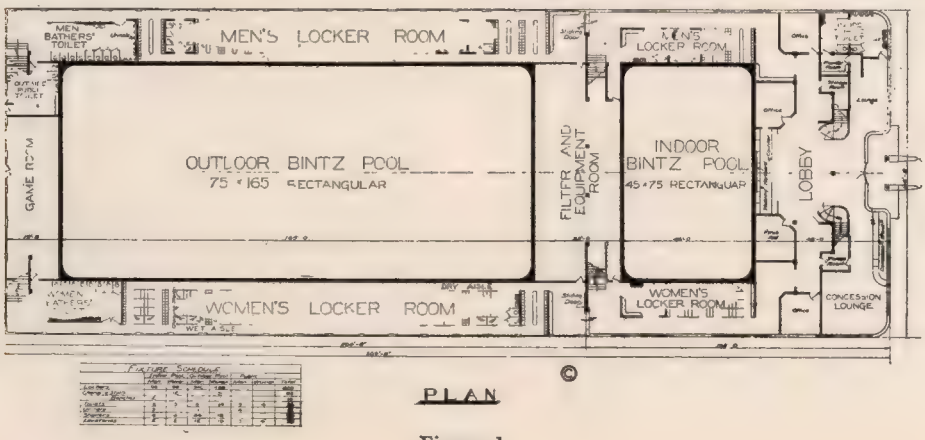
The indoor pool is mostly generally built in connection with a gymnasium, high school, YMCA or the like with the exception of our BINTZ INDOOR-OUTDOOR POOL PROJECT. We'll even go further and say that any high school built today, or already built, without an indoor swimming pool is out of date.

The Outdoor swimming pool is almost always built as a recreational feature and it is recommended that it be built in connection with an extensive play area for adults and children. The public toilets are available for the park patrons, and if baseball and football and other strenuous games are included in the play area, the bathrooms are immediately available for that use before and after the swimming season.

There are, of course, many minor reasons for not attempting to combine the indoor and outdoor pool. All in all, we can't think of any type of structure where the name is the same but where in actual practice the two structures are so far apart as to use, costs, operational activities, etc.

Now, some people's answer to the INDOOR-OUTDOOR pool is a single pool with a few sides opened up by one scheme or another. Well, believe it or not, that is still an INDOOR pool. It is no more an OUTDOOR pool, when opened up than a "hard-top convertible" automobile is a "convertible" automobile. It is still only a two-door sedan, although it may have some of the looks of a convertible. With the so-called indoor-outdoor pool, one is trying to "haul hay and people in the same station wagon". It just doesn't work. Either it is too small for the hay, or too large for the people. Take your choice. It's an axiom that you can't serve two masters at one time. There is only one way of making one pool actually an INDOOR-OUTDOOR swimming pool, and that is by rolling back the roof. Well, it can be done. Sure it can! GOT the MONEY? Let's quit kidding ourselves about these so called INDOOR-OUTDOOR swimming pools. "There ain't no such animal!", that we know of. There are other ways to get the same results, and get them better and cheaper. So why "roll back the r-r-oo-oof"?

And so, you ask, "What are we going to do, we must have year-round usage?" Well, there is a practical answer in the "Bintz



PLAN

Figure 1

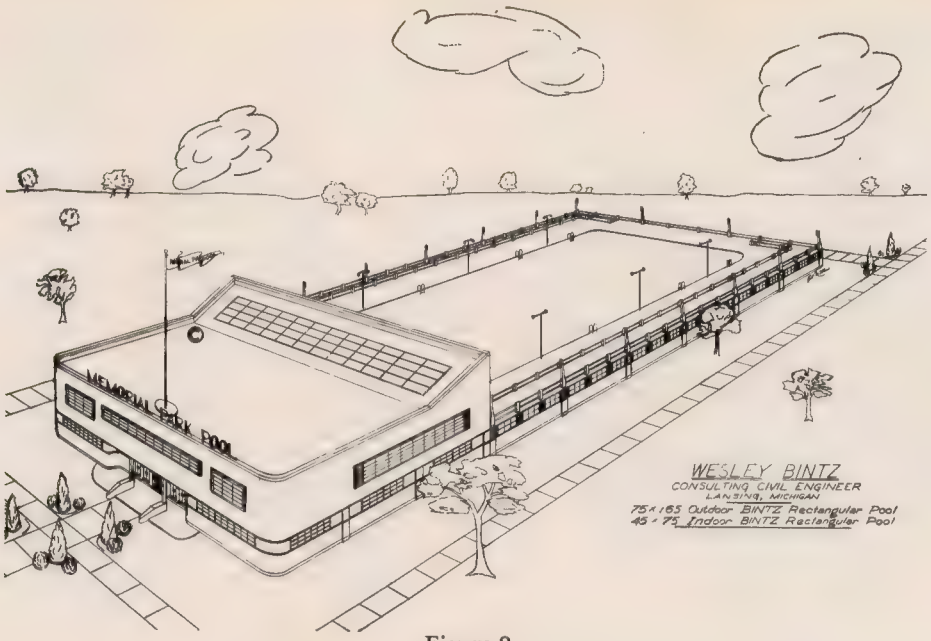


Figure 2

OUTDOOR-indoor Swimming Pool". A two-unit project with one operating unit or bathhouse.

Fig. 1 shows the layout of a combination or dual pool set up—an Indoor pool and an Outdoor Pool in a "BINTZ POOL" design and layout (as represented by patent No. 1,572,463), i.e., a combination swimming pool and bathhouse built as one coordinated unit, in which two sides of the pool become two sides of the bathroom. There is a lot more to that story, but this is not a sales talk for BINTZ POOLS. You'll note the entrance with lobby, counter, and shelving to serve the bathers, offices, first aid room, concession stand, lounge, and eating space, public toilets, and other conveniences, as well as the stairways to the pools above.

To continue with this layout, follow around the pools, and under the concourse floor, or deck around the pools, you'll find well positioned and complete bathroom conveniences for the use of two pools; the indoor pool and the outdoor pool. Twenty-seven years' of experience will take care of the details. The filter plant, between the two pools, serves both of the pools. Space for heating and ventilating systems is there, plus other special rooms for this and that. See special play rooms in rear. Note that the major part of the bathroom area can be shut off when the large outdoor pool is not in use, or during slack periods on cool summer days. This cuts down on operating costs. Use it when you need it; cut it off when you don't want it; and don't pay to heat or operate it when not in use.

Obviously, this "Bintz Pool" arrangement can be all put into a single building, and the pools designed as sunken pools, but this would cost about one-fourth more to accomplish and doesn't work out as well in operation or usage. But, the point is, you don't have to use the "Bintz Pool" layout to accomplish this desirable result.

Sketch No. 2 perspective shows how this is worked out architecturally, and what a really nice looking project you can get out of this combination, especially if you don't spoil it with wire fences, which would be required around an outdoor sunken pool.

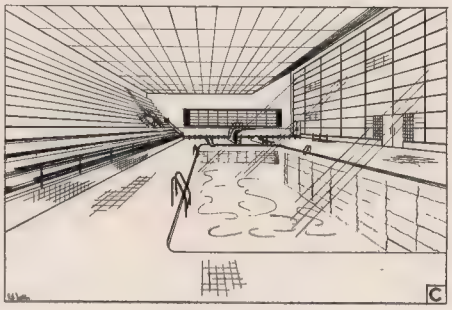


Figure 3

This would make a beautiful functional Memorial. Wouldn't it?

Sketch No. 3 shows a standard indoor pool, 100% swimmable, 100% divable for summer use and 50% wadable, and 50% diving area for use in winter. A grandstand that will seat 1,000 spectators for aquatic meets is provided. It doesn't need to be so large. It can be reduced down to several rows of seats if desired. Playrooms, offices, lobby, concession stand, etc., are under the grandstand. A spectator coming up from the floor below, passes under the grand stand, and emerges at either end of the indoor pool to enter the spectators' area around the outdoor pool, a unique arrangement. The pool is standard in all respects except that it is all deep water. Don't forget that in the summer time, it is strictly a diving pool. But to make it usable in the winter time for both wading and diving, we have arranged a floor, hydraulically operated, which will lift up into place

and provide 3′ to 5′ depth of water over half of the area. It can also be used thus on cool summer days. Why not?

One important thing to note in this sketch is the large southern exposure wall of ventilating windows. Skylights are provided in the roof. This provides an indoor pool with a maximum of outside lighting. In the summer time with windows open to the slant of the sun's rays, it is almost an outdoor pool.

Condensation in these large window areas is always a problem. We know of an indoor pool that has two outside walls built double about three feet apart—to take care of this important and troublesome matter. In another case, a so-called indoor-outdoor pool, built recently in a large city, two large sliding doors (two sides) are

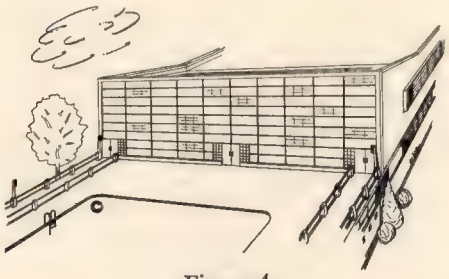


Figure 4

double doors 3′ apart to take care of this condensation item. Now, we have developed a unique arrangement to take care of this condensation in our glass wall. It is a system of ducts to blow warm air onto the window with other closely allied cold air ducts to take in the cold air from the windows so it cannot settle down to the floor and cause a situation that is highly undesirable.

Sketch No. 4 again shows the same window wall from the outdoor pool side with its expansive day-lighting provisions for this practical indoor-outdoor pool arrangement.

Now, we have an INDOOR-OUTDOOR Swimming Pool arrangement, without the disadvantages of the one-pool set up, and with all of the advantages of the single outdoor and indoor pool, each set up for its own particular use.

As to sizes, these pools have been drawn up to show a standard 50-meter length outdoor pool, width 75 feet, depths 3′-5′, 100% wadable and 100% swimmable with capacity of about 3600 per day. The indoor pool is 45′ x 75′, a standard 25-yard indoor pool. It has a capacity as a deep pool for summer use of about 110 at one time or 335 a day, and as a combination 50% deep and 50% shallow pool of 225 at one time or 675 daily. Of course, these dimensions can be larger or smaller.

The cost of the project as outlined would be about as follows: For the outside 50-meter length Bintz pool, including a proper front, filters, and complete and fully equipped bathroom and pool, cost would be $255,000.00.

For a sunken pool and bathhouse of equal size, permanence and details, cost will be at least $340,000. The building as shown 105′ x 115′ x 33′ with 398,475 cubic feet, including extra indoor pool costs and all equipment pertaining thereto, at $0.80 cu. ft., would be about $320,000.00.

Therefore, total cost for this dual indoor-outdoor swimming pool project—economical, well arranged, and economically usable all seasons of the year—would be about $575,000.00.

A larger building will be required if the "Bintz Pool" idea is not used, and increase cost by one-fourth.

This is our solution of the problem posed by the increasing activities facing many Park and Recreational departments, and some solution must be found which solves it actually and economically. We believe that the above arrangement actually does just that. It is attractive, modern, functional, economical, sensible, and memorialistic. It is our answer to the question posed at the beginning of this article. Got the money?

WESLEY BINTZ, CONSULTING ENGINEER

The American Recreation Society Quarterly Bulletin for this winter issue is made possible by a financial contribution by Wesley Bintz, Consulting Engineer, Civil, 301 S. Washington Avenue, Lansing, Michigan. Mr. Bintz has specialized in the design of swimming pools since 1923; has projects covering the United States; has developed several unique ideas in pool construction; has written numerous articles on swimming pools, and is eminently qualified to handle your problems in swimming pools as well as park structures, park layouts and allied projects.

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American Recreation Society

QUARTERLY BULLETIN FEBRUARY 15, 1951

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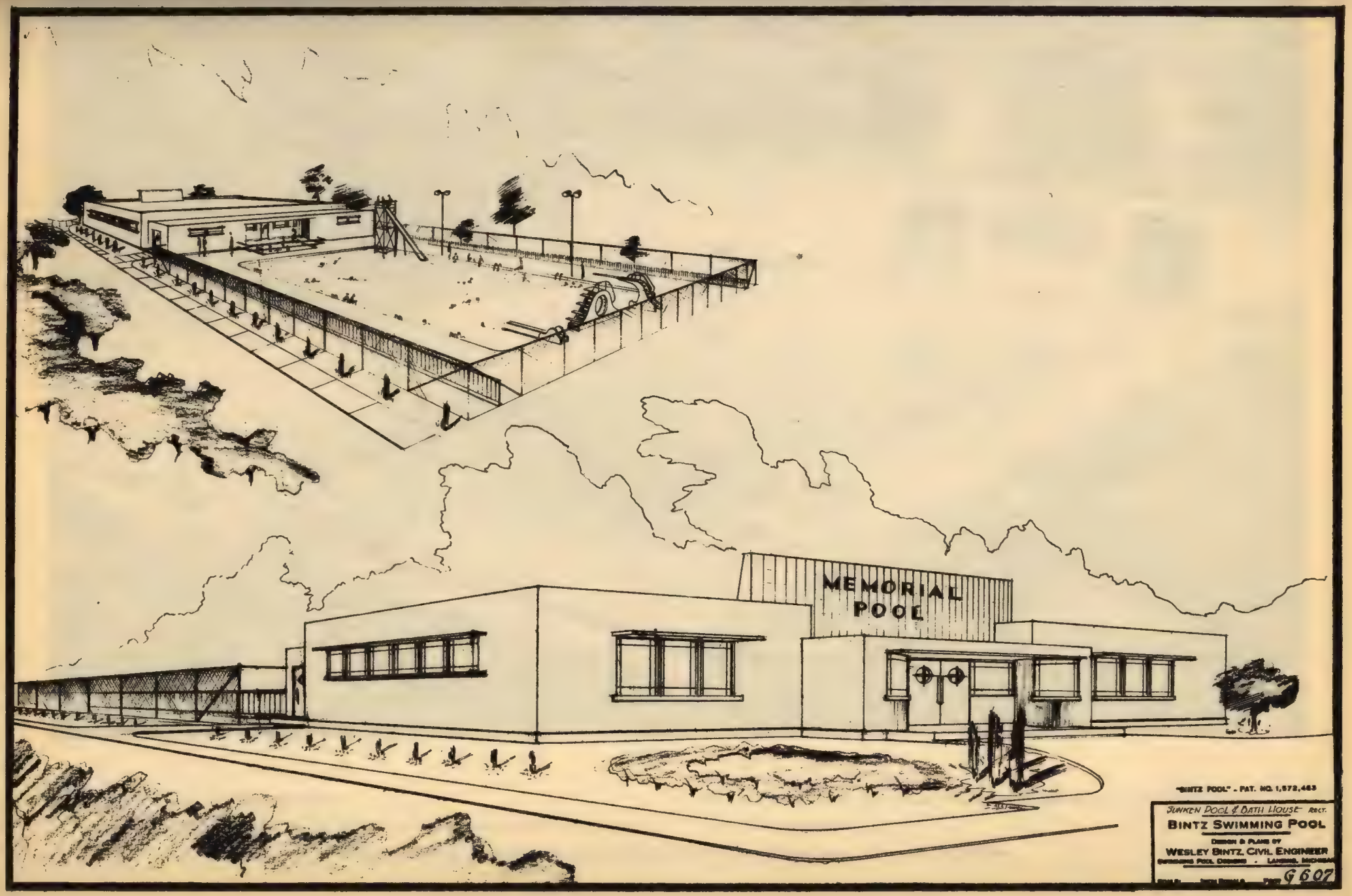
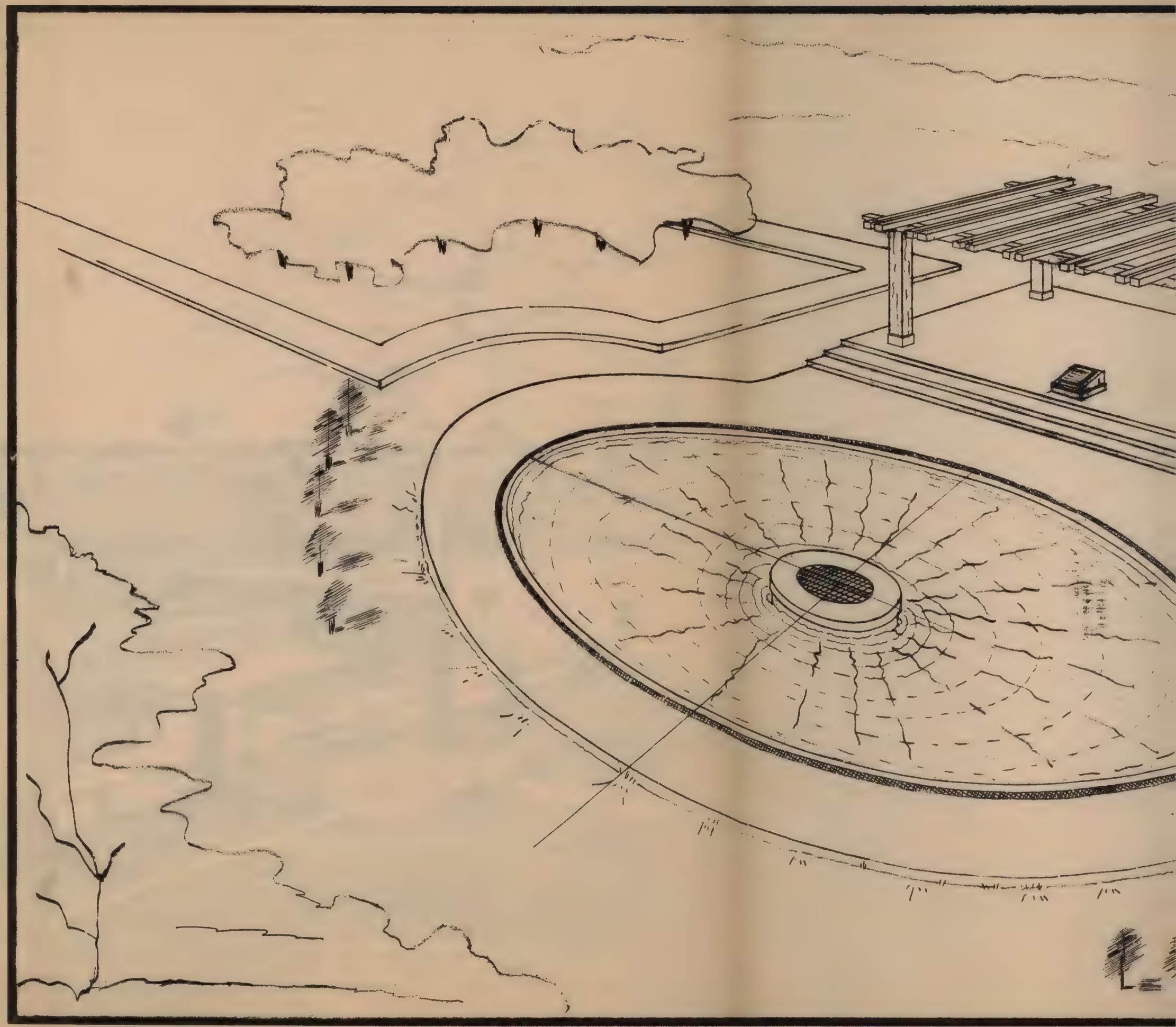

MEMORIAL
POOL
"BINTZ POOL" - PAT. NO. 1,572,463
SUNKEN POOL & BATH HOUSE RECT.
BINTZ SWIMMING POOL
DESIGN & PLANS BY
WESLEY BINTZ, CIVIL ENGINEER
SWIMMING POOL DESIGNER . LANSING, MICHIGAN
G 607

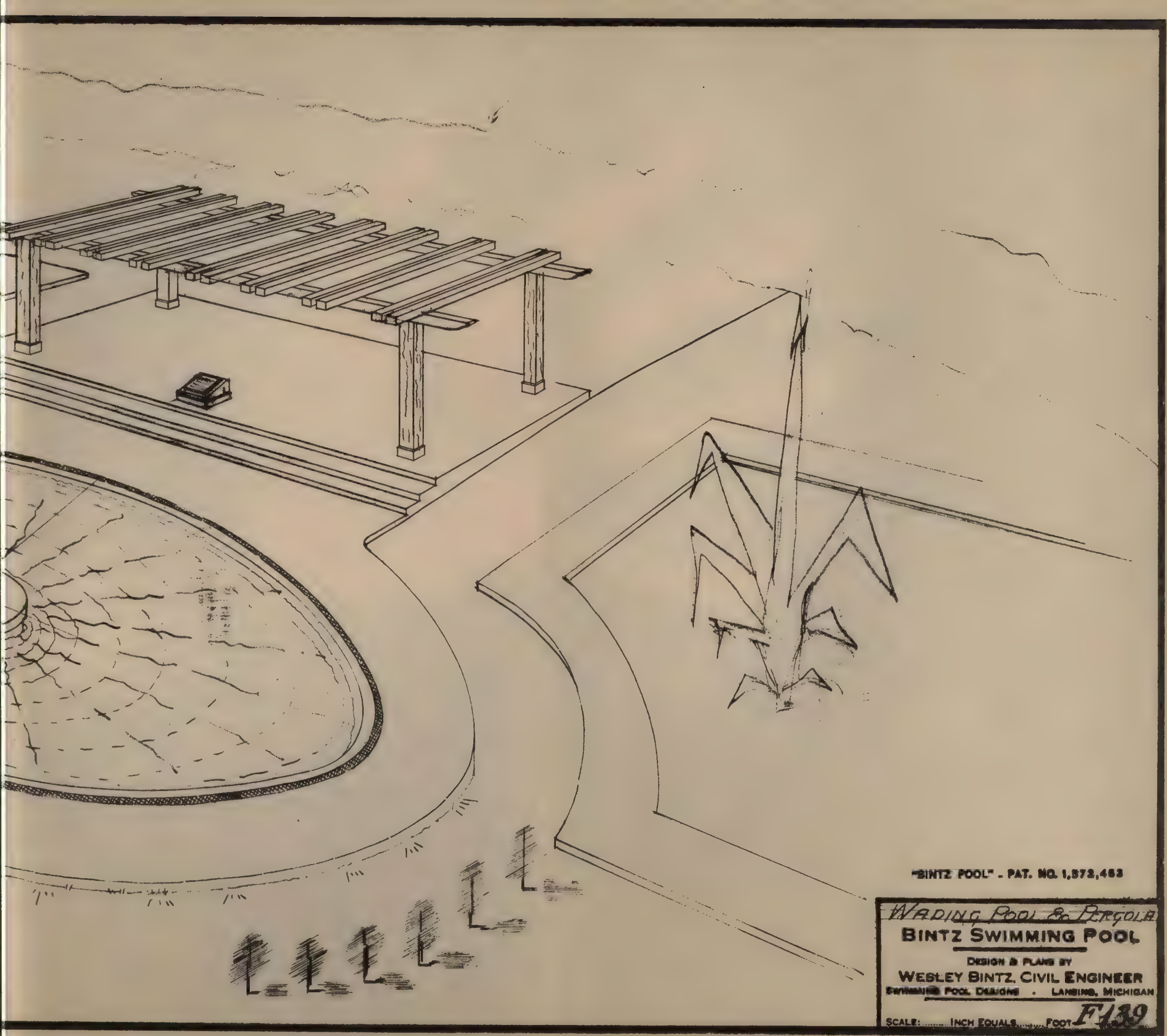
SUNKEN POOL WITH BATHHOUSE

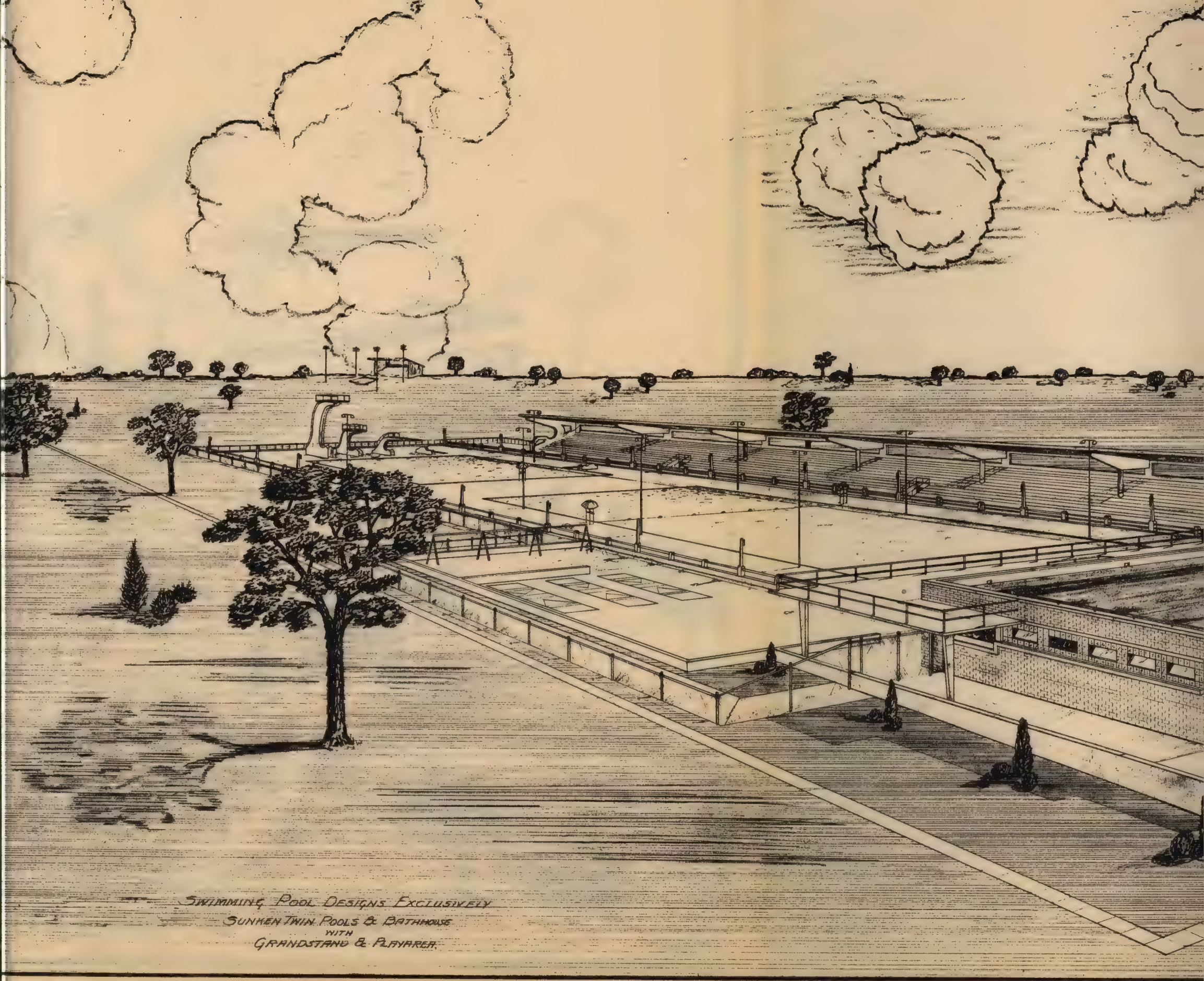
This is a rectangular sunken pool 35' x 82.5', with bathhouse and purification system, built in 1939 at Summit, New Jersey. It is one of the sunken pools developed by Bintz to suit local conditions.

WESLEY BINTZ, Consulting Engineer, Civil, 301 S. Washington Ave., Lansing 25, Mich.

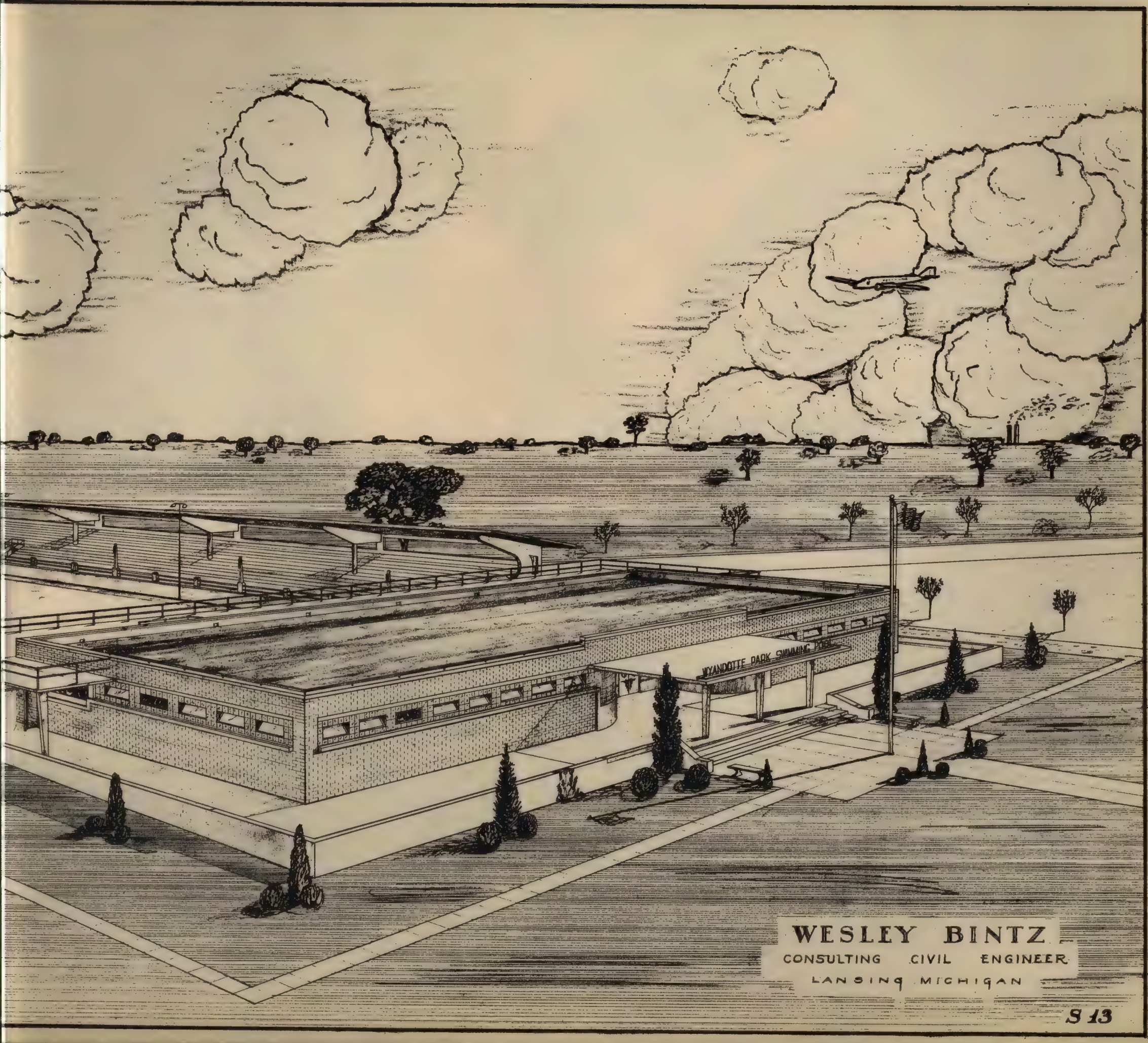
Preprinted from SWIMMING POOL DATA & REFERENCE ANNUAL, 1950

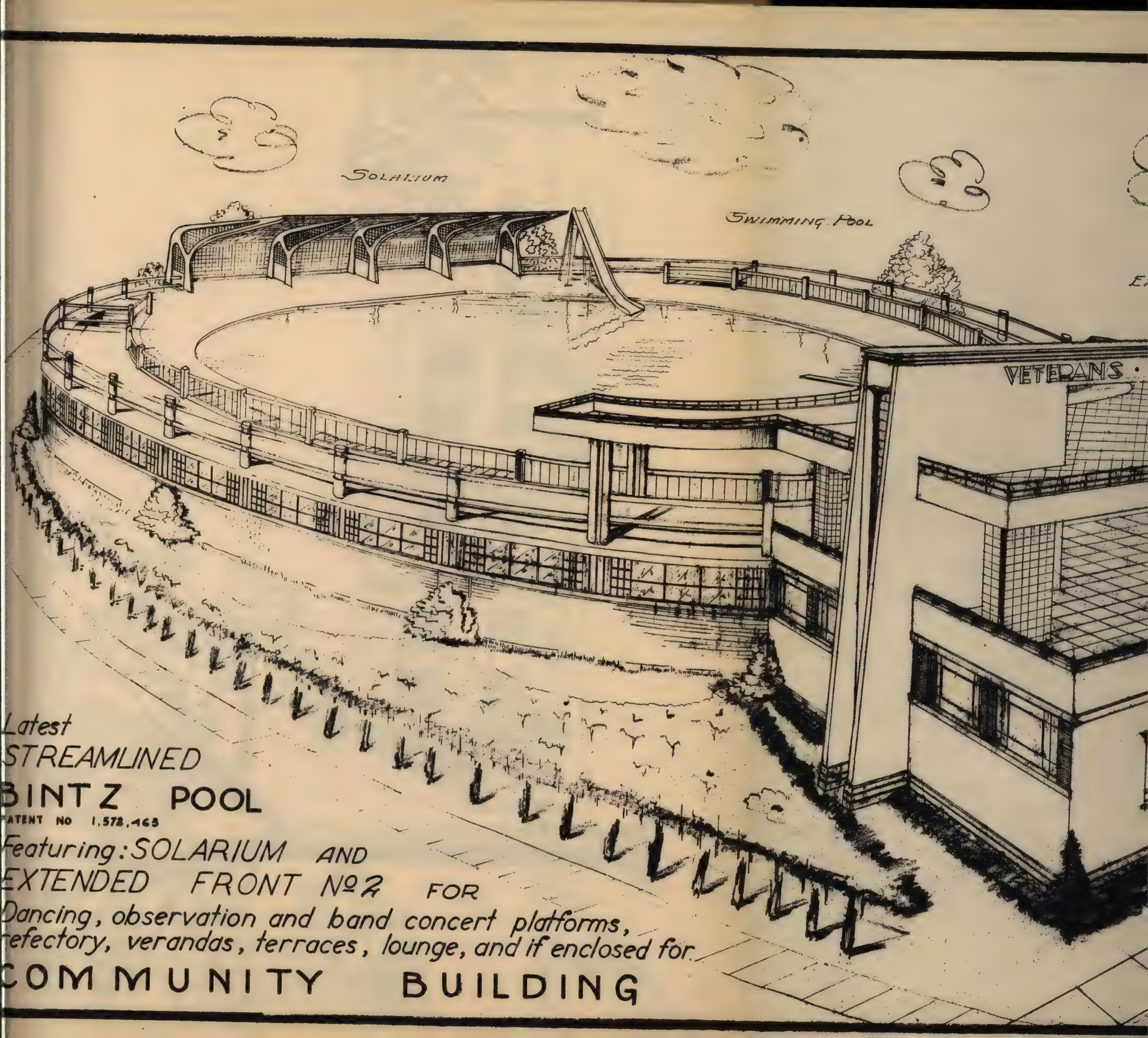


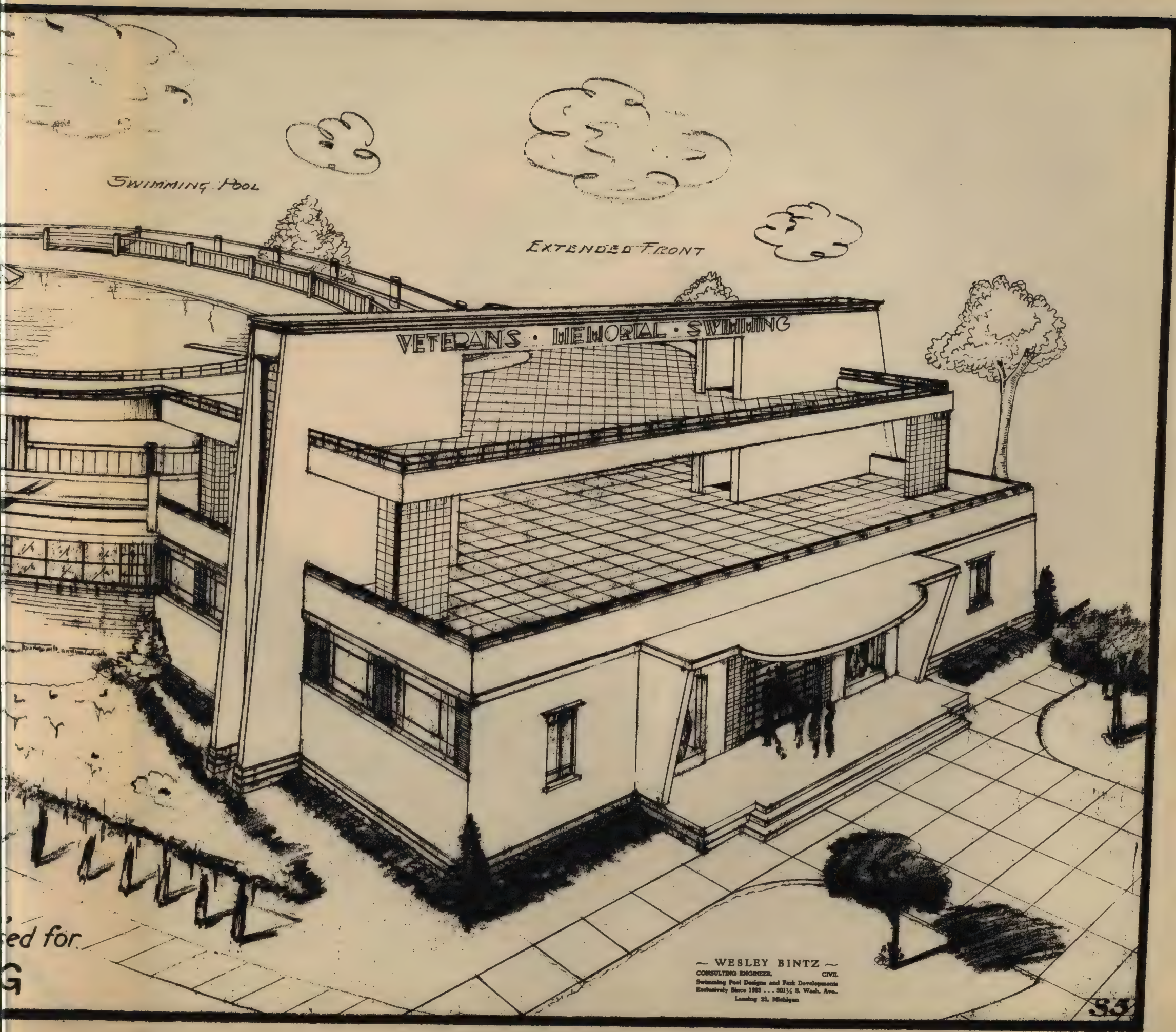

"BINTZ POOL" - PAT. NO. 1,572,463
WADING POOL & PERGOLA
BINTZ SWIMMING POOL
DESIGN & PLANS BY
WESLEY BINTZ, CIVIL ENGINEER
SWIMMING POOL DESIGNS . LANSING, MICHIGAN
SCALE: ..... INCH EQUALS ..... FOOT
F139



SWIMMING POOL DESIGNS EXCLUSIVELY
SUNKEN TWIN POOLS & BATHHOUSE
WITH
GRANDSTAND & PLAYAREA.


WYANDOTTE PARK SWIMMING POOL
WESLEY BINTZ
CONSULTING CIVIL ENGINEER
LANSING MICHIGAN
S 13


SOLARIUM
SWIMMING POOL
VETERANS
Latest
STREAMLINED
BINTZ POOL
PATENT NO 1,578,463
Featuring: SOLARIUM AND
EXTENDED FRONT No 2 FOR
Dancing, observation and band concert platforms,
refectory, verandas, terraces, lounge, and if enclosed for
COMMUNITY BUILDING


SWIMMING POOL
EXTENDED FRONT
VETERANS · MEMORIAL · SWIMMING
ed for
G
~ WESLEY BINTZ ~
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Swimming Pool Designs and Park Developments
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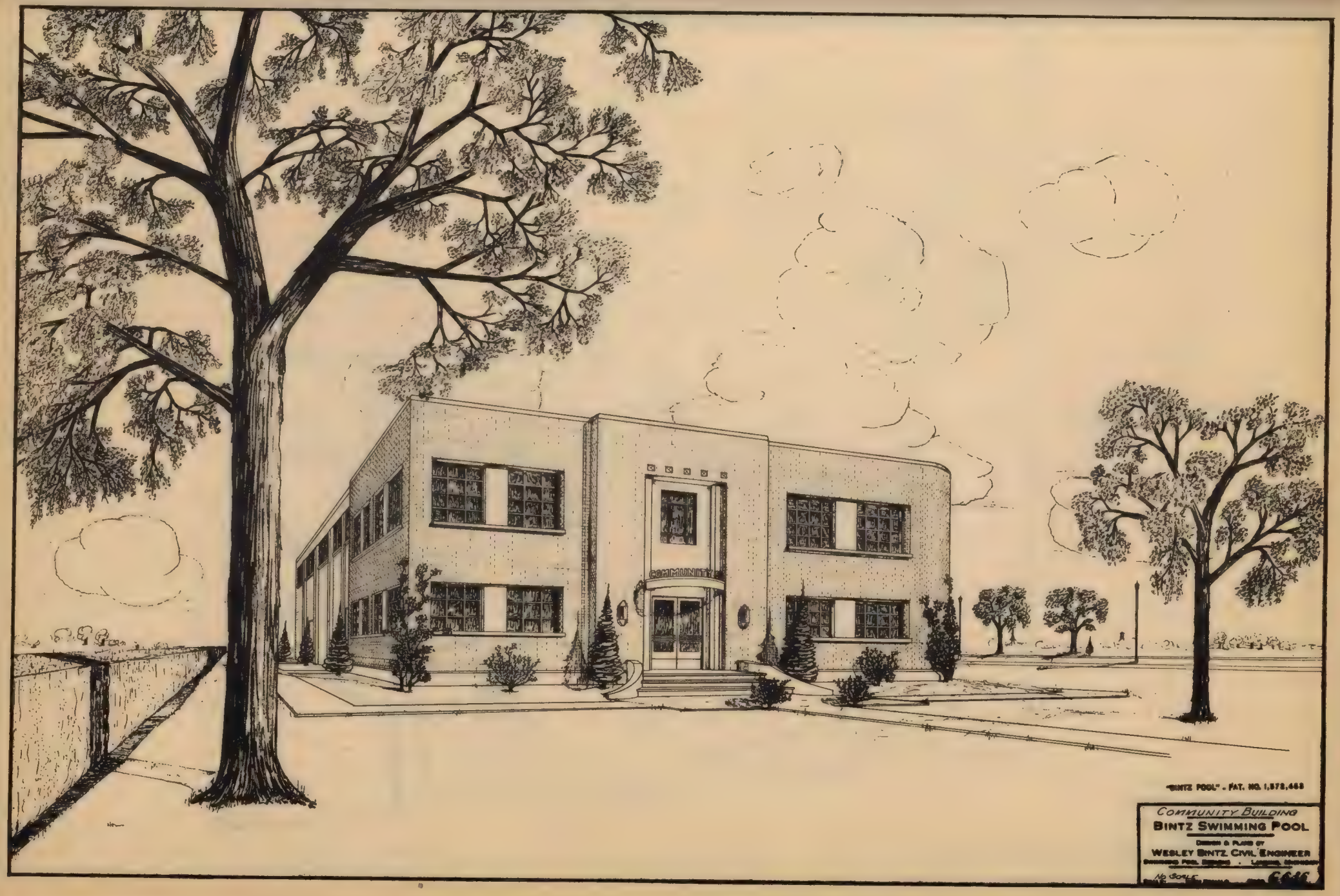
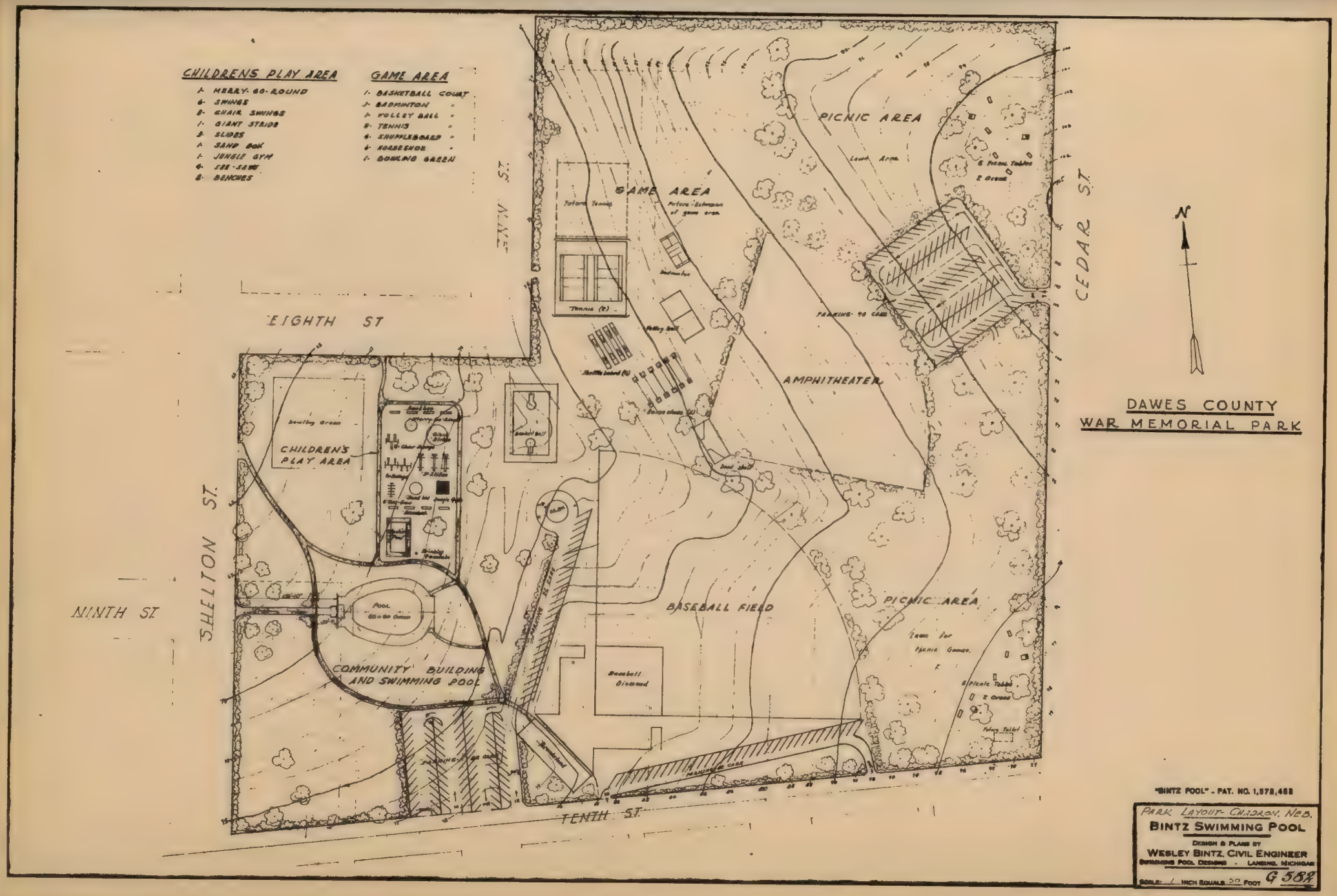
33


COMMUNITY
"BINTZ POOL" - PAT. NO. 1,578,463
COMMUNITY BUILDING
BINTZ SWIMMING POOL
DESIGN & PLANS BY
WESLEY BINTZ, CIVIL ENGINEER
NO SCALE
6646


CHILDRENS PLAY AREA
1- MERRY-GO-ROUND
6- SWINGS
8- CHAIR SWINGS
1- GIANT STRIDE
3- SLIDES
1- SAND BOX
1- JUNGLE GYM
4- SEE-SAWS
8- BENCHES
GAME AREA
1- BASKETBALL COURT
3- BADMINTON "
1- VOLLEY BALL "
8- TENNIS "
4- SHUFFLEBOARD "
4- HORSESHOE "
1- BOWLING GREEN
EIGHTH ST
SIXTH ST
CEDAR ST.
SHELTON ST.
NINTH ST
TENTH ST.
GAME AREA
PICNIC AREA
AMPHITHEATER
BASEBALL FIELD
PICNIC AREA
CHILDRENS PLAY AREA
COMMUNITY BUILDING AND SWIMMING POOL
Tennis (8)
Baseball Diamond
N
DAWES COUNTY
WAR MEMORIAL PARK
"BINTZ POOL" - PAT. NO. 1,578,488
PARK LAYOUT- CHADRON, NEB.
BINTZ SWIMMING POOL
DESIGN & PLANS BY
WESLEY BINTZ, CIVIL ENGINEER
SWIMMING POOL DESIGNS - LANSING, MICHIGAN
SCALE: 1 INCH EQUALS 20 FOOT
G 588

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

GENERAL DIMENSIONS, QUANTITIES AND COSTS FOR BINTZ SWIMMING POOLS

OVOID

SIZE, OVOID, Feet	60 x 90	70 x 105	80 x 120	100 x 150	100 x 165a	130 x 200
POOL						
- Overall Dimensions, Feet	89x128.0	99x143.0	113x172.0	133x200.5	137x222.0	167x263.5
- Area, Net, Square Feet	4,434.9	6,064.7	8,156.7	12,624.9	13,515.7	21,443.5
- Depths, Feet	3 - 11.	3 - 11.	3 - 11.	3 - 11.	3 - 11.	3 - 11.
- Volume, Gallons	173,508.	231,225.	294,600.	433,000.	480,600.	726,000.
- Length Pool Wall, Feet	248.4	289.7	338.3	419.4	443.0	547.9
- Swimmable, 3 Ft. or deeper, %	100.0	100.0	100.0	100.0	100.0	100.0
- Wadable, 5 Ft. or less, Sq.Ft. b	3,138.3	4,654.1	6,100.1	10,328.3	11,423.0	18,906.9
- Wadable, 5 Ft. or less, Percent	70.8	76.8	74.8	81.8	84.6	88.1
CONCOURSE FLOOR						
- Widths, Feet	14.5-20.2	14.5-20.2	16.5-26.3	16.5-30.2	18.5-33.8	18.5-32.5
- Area, Square Feet	4,505.5	5,039.2	7,143.5	8,944.0	9,915.8	12,494.7
BATH ROOM (100% Permanent, No Wood)						
- Area, Net, Square Feet	4,007.3	4,509.8	6,217.5	7,826.5	8,731.3	11,073.8
- Building Equivalent, Gross, SqFt	30x145.	30x160.	30x225.	30x280.	30x306.	30x400.
TOTAL AREA REQUIRED, Square Feet						
- By Patented Bintz Pool, c	8,940.4	11,103.9	15,300.2	21,568.9	23,431.5	33,938.2
- By Sunken Pool & Bath House, d	13,290.4	15,903.9	22,050.2	29,968.9	32,611.5	45,938.2
CHILDREN'S WADING POOL (Variable)						
- Size, Feet	8 x 20.	8 x 20.	12 x 26.	12 x 30.	12.7x30.	15 x 36.
CAPACITY, Bathers, e						
- At one time	356.	515.	680.	1,110.	1,215.	1,975.
- Daily(About 3 times above)	1,100.	1,500.	2,100.	3,300.	3,650.	6.000.
COST, Ready to Operate, (1946 Basis)						
- Minimum, f h	(COSTS are changing so much that we have had to omit them. A Cost Sheet, up-to-date, is available for the asking.)					
- Maximum, g h						
FOR CITIES OR TOWNS OF						
- Population, up to	9,000	12,000	20,000	35,000	40,000	75,000

RECTANGULAR POOLS

SIZE, RECTANGULAR, Feet	45 x 90	45 x 105	60 x 120	75 x 150	75 x 165a	120 x 240
POOL						
- Overall Dimensions, Feet	62x118	62x133	89x157	108x191	108x206	161x310.5
- Area, Net, Sq.Ft.(Round Corners)	4,044.6	4,719.6	7,178.5	11,228.5	12,353.5	28,714.2
- Depths, Feet	3 - 11.	3 - 11.	3 - 11.	3 - 11.	3 - 11.	3 - 11.
- Volume, Gallons	171,000.	195,000.	308,000.	443,000.	467,000.	955,000.
- Length Pool Wall, Feet	270.0	300.0	360.0	450.0	480.0	720.0
- Swimmable, 3 Ft. or deeper, %	100.0	100.0	100.0	100.0	100.0	100.0
- Wadable,5 Ft. or less,Sq.Ft. b	2,697.3	3,147.3	4,789.3	8,239.3	9,364.3	24,114.0
- Wadable,5 Ft. or less,Percent	66.7	66.7	66.7	73.3	75.8	84.0
CONCOURSE FLOOR						
- Widths, Feet	8.5-17.5	8.5-17.5	14.5-22.5	16.5-24.5	16.5-24.5	20.5-34.5
- Area, Square Feet	3,117.4	3,372.4	6,794.5	9,399.5	9,894.5	19,606.0
BATH ROOM (100% Permanent, No Wood)						
- Area, Net, Square Feet	2,574.2	2,779.2	5,922.0	8,335.0	8,772.5	17,130.
- Building Equivalent,Gross SqFt.	25x110.	25x120.	30x215.	30x300.	30x315.	30x615.
TOTAL AREA REQUIRED, Square Feet						
- By Patented Bintz Pool c	7,162.0	8,092.0	13,973.0	20,628.0	22,248.0	48,320.2
- By Sunken Pool & Bath House d	9,912.0	11,092.0	20,423.0	29,628.0	31,698.0	66,770.2
CHILDREN'S WADING POOL (Variable)						
- Size, Feet	5 x 20	5 x 20	7 x 30	8 x 36	8 x 36	12 x 40
CAPACITY, Bathers e						
- At One Time	315	365	560	925	1,035	2,565
- Daily(About 3 x single capacity)	950	1,100	1,675	2,750	3,100	7,500
COST, Ready to Operate, (1946 Basis)						
- Minimum, f h	(COSTS are changing so much that we have had to omit them. A Cost Sheet, up-to-date, is available for the asking).					
- Maximum, g h						
FOR CITIES OR TOWNS OF						
- Population, up to	8,000	10,000	17,000	30,000	40,000	90,000

NOTES: All quantities variable. a. 50 meters. b. Deep water from end: 90'pool-30', 105'-35', 120'up-40'. c. Area: Pool plus concourse floor. d. Areas: pool, concourse floor, and bath-room building equivalent. e. Based on one person per 10 square feet shallow water,and one per 30 square feet deep. f. Non-union wage and material scale, built and equipped to operate to a minimum requirement, with filter plant and lockers. g. Union wage and material scale,built and equipped for maximum operation, one hundred percent complete. h. For sunken pool and bath-house of equal size, permanence and details add twenty-five-percent to fifty-percent.

LANSING, MICHIGAN *Swimming Pool Designs and Consultation* **WESLEY BINTZ**

Registered Engineer: Michigan, Illinois, Iowa, Indiana, New York State, and National Certificate, Engineers

SWIMMING POOL DESIGNS OF ALL KINDS AND CONSULTATION ONLY

"BINTZ POOL" Pat. No. 1,572,463

BINTZ SWIMMING POOLS de LUXE OVOID

SIZE, OVOID, Feet	60 x 90	70 x 105	80 x 120	100 x 165a
POOL				
- Overall Dimensions, Feet	94 x137.0	106 x154.0	118 x176.0	142 x227.0
- Area, Net, Square Feet	4,434.9	6,064.7	8,156.7	13,515.7
- Depths, Feet	3.0 - 11.0	3.0 - 11.0	3.0 - 11.0	3.0 - 11.0
- Volume, Gallons	173,508.0	231,225.0	299,267.0	480,582.0
- Length Pool Wall, Feet	248.4	289.7	338.3	443.0
- Swimmable, 3 Feet or Deeper %	100.0	100.0	100.0	100.0
- Wadable 5 Ft. or less, SqFt. b	3,138.3	4,654.1	6,100.1	11,423.0
- Wadable 5 Ft. or less, Percent	70.8	76.8	74.8	84.6
CONCOURSE FLOOR				
- Widths, Feet	17.0-20.1	18.0-21.0	19.0-24.8	21.0-27.4
- Area, Square Feet	5,409.1	6,489.0	8,021.1	11,243.3
BATH ROOM (100% Permanent, No Wood)				
- Area, Net, Square Feet	4,748.0	5,949.0	7,289.0	10,363.2
- Building Equivalent, Gross, SqFt.	30 x 168.	30 x 209.	30 x 257.	30 x 364.
CHILDREN'S WADING POOL (Variable)				
- Size, Feet	10.5 x 29.	11.5 x 30.	12 x 30.	12 x 30.
TOTAL AREA REQUIRED, Square Feet				
- By Patented Bintz Pool, c	9,844.0	12,553.7	16,177.8	24,759.0
- By Sunken Pool and Bathouse d	14,644.0	18,553.7	23,497,8	35,649.0
CAPACITY, Bathers e				
- At one time	356.	515.	680.	1,215.
- Daily (about 3 times above)	1,100.	1,500.	2,100.	3,650.
COST, Ready to operate (1948)				
- Minimum, f, h, i, (a-i See	(Costs are changing so fast that we have had to omit them. A cost sheet, up-to-date, is available for the asking.)			
- Maximum, g, h, i, Notes Below)				
FOR CITIES OR COMMUNITIES OF				
- Population up to	9,000.	12,000.	20,000.	40,000.

[illegible]: The above data for the latest in BINTZ POOL Design, having; 1. Wet and dry [illegible] 2. Forced ventilation, 3. Extra width concourse floor, 4. Streamlined architecture, 5. Wet and dry toilets for bathers, as well as for the public, 6. Newly designed railings, lamp-posts, 3-meter and 1-meter springboards, high-dive, & concrete [illegible] equipment.

NOTES: All quantities variable. a:50 meters. b:Deep water from end; 90'pool-30',105'-35',120'up-40'. c:Area;Pool plus concourse floor.d:Areas;pool,concourse floor,& bath-room bld.equiv.e:Based on one person/10 SqFt shallow water, & one/30 SqFt deep.f:Non-Union wage & material scale,built & equipt to operate to minimum requirement with filter plant & lockers.g:Union wage & material scale,built & equipt for maximum operation, 100% complete.h:For cost of sunken pool & bath-hse of equal size, permanence,&details, add 25%-50%. i.For rectangular Bintz Pool, decrease area 10%, increase cost 10%.

[illegible]

Anyone who is interested in a private pool for themselves or a pool requiring no bathhouse facilities of any kind, should see for our Private Pool Data. They will be sent the following:

1. You should receive complete information on the size of our pool. This will give you the overall dimensions, area of the pool, length, width and area of the swimming floor, depth of the pool and other dimensions.

2. A sheet of [illegible] of our pools [illegible] and [illegible] when [illegible] a [illegible].

3. A special [illegible] of pools which have been [illegible] on a [illegible] pool in this [illegible] at [illegible], Indiana.

4. A page [illegible] the [illegible] and reasons for use of and advantages of the swim pool.

5. An enlargement, 7" x 11", of this particular private pool, if available.

6. A small postcard size picture of a private pool which you can carry around in your pocket.

7. A postcard size picture of a private pool of a very formal nature with pergola, which we handled for Mr. Ruetter, Vice-President of General Motors.

You will also receive a letter which will give you complete information as to a new idea which we have developed for the construction of our pool wall, requiring no fromwork.

This data is available to anyone asking for same. We will be very happy to supply it for those who want to build a private pool in their own backyard and enjoy the benefits and pleasures derived from such a swimming pool, or where such a pool might be needed for Country Clubs or Camps.

GENERAL DIMENSIONS, QUANTITIES, COSTS AND DATA

-on-

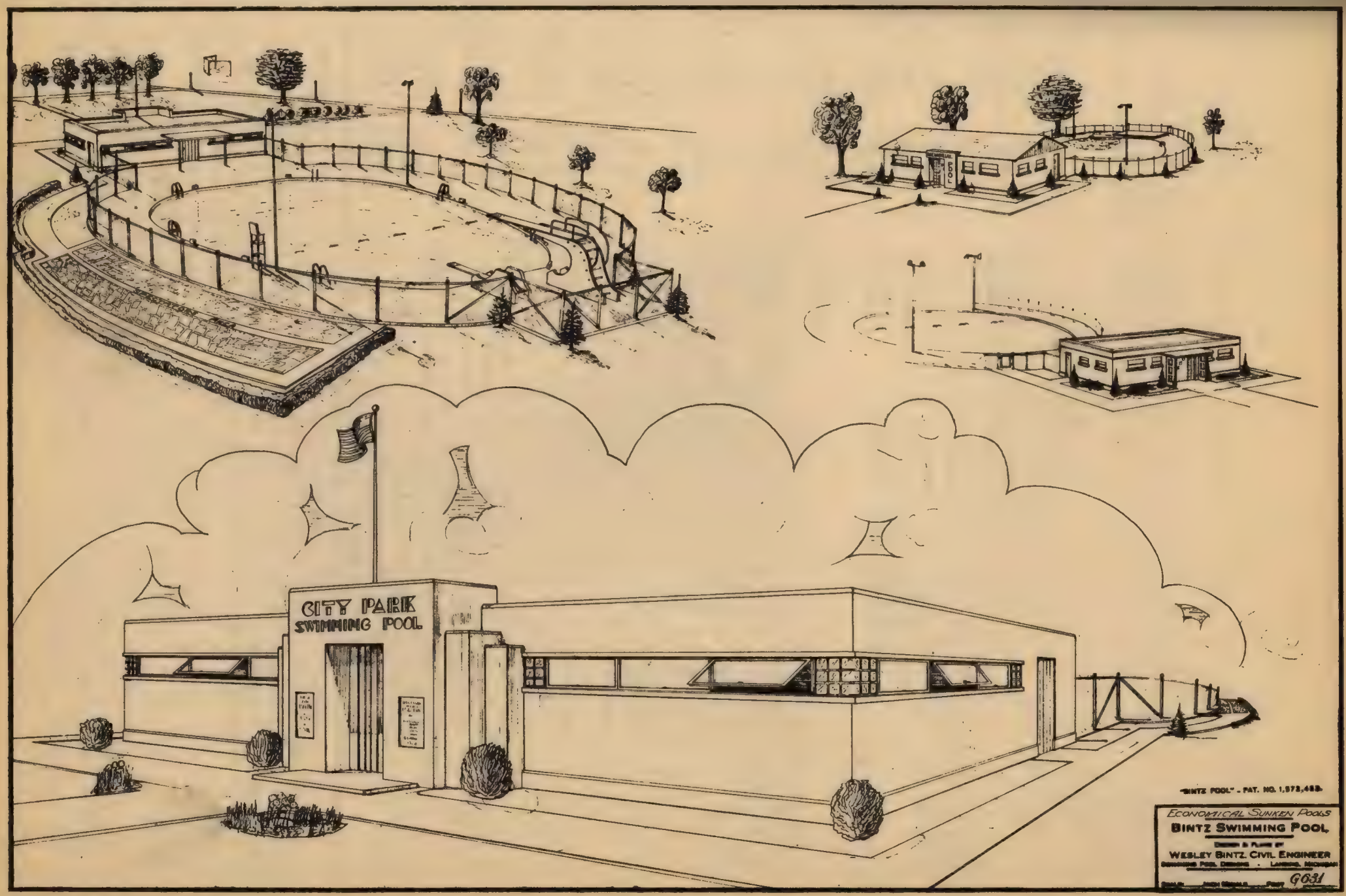
OVOID ECONOMICAL SUNKEN POOLS OVOID

[illegible] the information tabulated below, clear in [illegible] than [illegible]

SIZE, OVOID, feet	30 x 45	40 x 60	50 x 75	60 x 90
POOL				
- Overall Dimensions, Feet	40x100.0	54x116.0	66x132.0	78x148.0
- Area, Net, Square Feet	1,116.4	1,967.1	3,044.5	4,434.9
- Depths, Feet	3 - 9.	3 - 9.	3 - 11.	3 - 1[illegible]
- Volume, Gallons	51,000.	91,2[illegible].	123,878.	173,50[illegible].
- Length Pool Wall, Feet	126.0	166.1	205.2	248.4
- Swimmable, 3 Ft. or Deeper, Sq Ft	100.0	100.0	100.0	100.0
- Wadable, 5 Ft. or less, Sq Ft b	599.5	1,058.1	1,994.1	3,138.3
- Wadable, 5 Ft. or less, Percent	53.7	53.7	65.5	70.8
CONCOURSE FLOOR				
- Widths, Feet	6.0-7.8	7.0-8.8	8.0-9.8	9.0-10.8
- Area, Square Feet, approx.	1,030.0	1,500.0	2,050.0	22,700.0
BATHHOUSE				
- Size	24x24.	24x30.	24x36.	2[illegible]x42.
- Area, Gross, Square Feet	576.	720.0	864.0	1,008.0
TOTAL LAND AREA REQUIRED, Square Feet				
- by Sunken Pool and Bathhouse	2,722.4	4,187.1	5,958.5	8,1[illegible].9
CAPACITY, Bathers c				
- At one time	70.	136.	235.	356.
- Daily (About 1x single Capacity)	210.	400.	700.	1,100.
- No. of baskets in Layout or Plan	48.	72.	120.	168.
FOR CITIES OR TOWNS OF				
- Population, up to f	2,000.	4,000.	6,000.	[illegible],000.
COST, Ready to Operate d, e	Costs are given upon request. Very low. Personal interviews are the best answer.			

NOTES: a. All quantities variable. b. Deep water from end: 60'-22.5', 60'-30', 75'-30' 90'-35'. c. Based on one person/10 SqFt shallow water, and one/30 SqFt deep. d. Costs are for average conditions and are about 3 times 1939 costs. For large City vicinities, add 20%. e. All pools are OVOID. For rectangular pools decrease area by 10%; increase cost by 10%. f. Generally speaking, it is desirable for a community to build their pool the next size larger than indicated except in the largest size, for possible future growth. 11/1/53

[illegible] DIETZ, P.E., Consulting Engineer, Civil, Lansing 25, Michigan


CITY PARK
SWIMMING POOL
"BINTZ POOL" - PAT. NO. 1,973,488
ECONOMICAL SUNKEN POOLS
BINTZ SWIMMING POOL
WESLEY BINTZ, CIVIL ENGINEER
SWIMMING POOL DESIGNS · LANSING, MICHIGAN
G631

:::: POOL COSTS, A,
:::: for
:::: BINTZ, SUNKEN AND PRIVATE POOLS, January 1
:::: for
:::: COMPLETE DIMENSION TABLES supplied otherwise. 1953

POOL SIZES-B	CONCOURSE FLR WIDTH	PRIVATE POOL	C'NTRY CLB or CAMP	BINTZ POOL REGULAR	BINTZ POOL DELUXE	SUNKEN POOL AND BATHHOUSE
NOTE		C	D	E	F	G
10'x 15'	3.0	$1,250.				
13'x 20'	3.0	1,700.				
16'x 24'	3.5	2,000.				
20'x 30'	4.0	2,500.				
24'x 36'	4.5	3,000.				
27'x 40'	4.5	5,000.				
30'x 45'	5.0	6,500.				
33'x 50'	6.0	8,000.				
40'x 60'	7.0	10,000.				
40'x 60'	8.5					
40'x 60'	12.0					
50'x 75'	8.0					
50'x 75'	8.5					
50'x 75'	12.0					
50'x 75'	14.5					
60'x 90'	8.5					
60'x 90'	14.5					
60'x 90'	17.0					
70'x105'	14.5					
70'x105'	18.0					
80'x120'	16.5					
80'x120'	19.0					
100'x150'	16.5					
100'x165'	18.5					
100'x165'	21.0					
130'x200'	18.5					

Wesley Bintz
Consulting Engineer, Civil
Swimming Pool Designs, since 1923,
Community Buildings, Memorials, Park
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301 S. Washington Avenue
Lansing 25, Michigan

Sorry, but we've had to discontinue giving out cost figures, because of unfair comparisions. We might indicate a cost of $175,000 for a 12,500.) certain size pool. You'll be told, "Oh, heck, we can give you a pool for $120,000." That's half right, talking about pool size only.

Conveniently forgotten is size of bathhouse, width of deck, type and kind of equipment for pool and bathhouse, and 28 years of experience, which guarantees a soundly engineered swimming pool.

They have taken advantage of you by telling a "white lie - half truth", and further by not mentioning a lot of other things that they should know would make up the difference between their cost figure and ours, a vastly different set-up.

In fact, with the same pool, bathhouse, deck, and equipment of equal size, permanence, and details, you can add at least 1/4th to our Bintz Pool cost to get their cost (except Columns C and G).

Doubt it? We'll prove it, plus. So, sorry but we don't want to penalize you, nor us either. Complete cost figures for any pool upon request.

A. Costs are for average conditions, and are about 3 times 1939 costs. For large City Vicinities, add 20%. For southern and small communities, reduce by 20%. For absolute minimum Construction, details and equipment, costs may be decreased by one-third.
B. All pools are OVOID. For Rectangular pool decrease area by 10% and increase cost by 10%
C. Private pool, no bathroom, no purification system (For purification system, add 50%. Special Construction. 15'-36' No Deep Water.
D. Pool with limited bathroom facilities. Includes purification system.
E. Pool with complete bathhouse facilities, and fully equipped.
F. Same as E, except with latest improvements, Wet and Dry aisles, Wider deck, Extended front, streamlined spring board supports, etc.
G. Sunken Pool and bathhouse, of equal size, permanence, details and equipment, as Bintz Pool given in column F, and is ColumnF plus 1/3rd.

BINTZ POOLS

This CORRECT DATA on "BINTZ POOLS"is supplied for the readers interest and because so many Owners overstate various features and COST of their pool, basing cost usually on its equal in a sunken pool and bathhouse. We don't blame them, but it isn't fair to us, since it seems to disprove the fact, namely: That "A BINTZ POOL is 25% to 40% cheaper to build than a sunken pool and bath house of equal size,permanence, and details".

CITY	STATE	YEAR	SIZE	SHAPE	KIND	OWNER	FINANCING	BATHROOM j	COST. d
Flint, Mich.		'19-20	80'x120'	Ovoid	Bintz	Municipal	Mun.Bonds	7,605	$45,000
Flint, Mich.		'19-20	80'x120'	Ovoid	Bintz	Municipal	Mun.Bonds	16,905c	90,000
Indianapolis, Ind.		'22	128'x192'	Ovoid	Bintz	Municipal	Mun.Bonds	9,319	61,000
Lansing, Mich.		'22-23	80'x120'	Ovoid	Bintz	Municipal	Gift	5,322	35,000
Terre Haute, Ind.		'23	128'x192'	Ovoid	Bintz	Municipal	Mun.Bonds	9,319	73,000
Hamilton, Ohio		'23-24	100'x150'	Irreg.	Sunken	Municipal	Sub.& Park b	3,915k	$22,000
Indianapolis, Ind.		'23-24	130'x200'	Ovoid	Bintz	Municipal	Mun.Bonds	9,964	85,000
Pana, Illinois		'24-25	80'x120'	Ovoid	Bintz	Civic	Stock	5,600	18,000
Pontiac, Ill.		'25	80'x120'a	Ovoid	Bintz	Municipal	Gift	5,844	43,000
Anderson, Ind.		'25	100'x150'	Ovoid	Bintz	Municipal	Mun.Bonds	7,022	55,000
Greenburg, Pa.		'25	80'x120'	Ovoid	Bintz	Commercial	Private	6,540	$32,000
Lima, Ohio		'25	100'x150'	Ovoid	Bintz	Commercial	Stock	7,822	50,000
Port Dodge, Iowa		'25	80'x120'	Rect.	Bintz	Amuse.Park	Stock	6,186	35,000
Dallas, Texas		'25-26	100'x150'	Ovoid	Bintz	Municipal	Mun.Bonds	7,827	63,000
Pittsburgh, Pa.		'26	80'x120'	Ovoid	Bintz	Commercial	Private	6,630	33,000
Beaumont, Texas		'26	80'x120'	Ovoid	Bintz	Municipal	Budget	6,218	$36,000
Little Rock, Ark.		'26	65'x100'a	Ovoid	Sunken	C'ntry Club	Assessment	360g	14,000
Anadarko, Okla.		'26	65'x100'	Ovoid	Bintz	Commercial	Private	3,931	27,000
Troy, New York		'26-27	80'x120'	Ovoid	Bintz	Municipal	Mun.Bonds	6,218	46,000
Elmira, N. Y.		'26-27	80'x120'	Ovoid	Bintz	Municipal	Sub.& Bonds b	6,218	34,000
Johnson City, N.Y.		'26-27	130'x200'	Ovoid	Bintz	Industrial	Private	11,074	$90,000
Beaumont, Texas		'27	45'x 90'	Rect.	Bintz	Municipal	Budget	2,795	8,600
Cleveland, Ohio		'27	120'x240'	Rect.	Bintz	Municipal	Mun.Bonds	17,130	138,700
South Bend, Ind.		'27	100'x165'a	Ovoid	Bintz	Amuse,Park	Stock	7,446	55,000
New Orleans, La.		'27-28	150'x225'ae	Rect.e	Sunken	Municipal	Sub.& Bonds b	13,858k	240,000
Wheaton, Ill.		'28	75'x120'	Rect.	Bintz	Municipal	Pk. Bonds	4,380	$38,000
Liberal, Kansas		'28	45'x 90'a	Rect.	Bintz	Municipal	Mun.Bonds	2,877	11,400
Eaton Rapids, Mich.		'28	23'x 60'	Irreg.	Sunken	Private	Private	79g	8,000
Elizabeth, N.J.		'28-29	90'x150'a	Rect.	Bintz	Municipal	Mun.Bonds	7,540	54,000
Jacksonville, Fla.		'28-29	45'x105'a	Rect.	Bintz	Municipal	Pk. Fund	6,515	31,000
Watertown, N.Y.		'29	80'x120'a	Ovoid	Bintz	Municipal	Gift	6,218	$37,000
Chillicothe, Mo.		'29-30	80'x120'a	Ovoid	Sunken	Municipal	Mun.Bonds	2,738k	30,000
Rutland, Vermont		'29-30	80'x120'a	Ovoid	Bintz	Municipal	Mun.Bonds	6,218	33,000
Elmont, L.I.,N.Y.		'30	100'x165'a	Ovoid	Bintz	Commercial	Private	8,365	66,000
New York City,N.Y.		'30	70'x200'af	Rect.	Bintz	Commercial	Stock	34,108f	298,000
Laurel, Miss.		'30	80'x120'a	Ovoid	Bintz	Municipal	Budget	4,208	$18,000
Greenfield, Ind.		'30	80'x120'a	Ovoid	Bintz	Municipal	Mun.Bonds	6,218	26,000
Wilmington, Del.		'30	65'x110'a	Rect.	Bintz	Municipal	Mun.Bonds	5,596	48,000
Newburgh, New York		'31	100'x165'a	Ovoid	Bintz	Municipal	Sub.& Bonds b	7,441	45,000
Bellwood, Ill.		'31-32	80'x120'a	Ovoid	Bintz	Park Dist.	Park Bonds	29,621c	95,000
St. Louis, Mo.		'34	65'x105'a	Ovoid	Sunken	C'ntry Club	Private	465g	$15,000
Weirton, W.Va.		'34	80'x120'a	Ovoid	Bintz	Industrial	Private	6,218	35,000
Waverly, Iowa		'35	65'x105'a	Ovoid	Bintz	Municipal	Budget	2,442	19,000
Grundy Center, Iowa		'35	60'x 90'a	Ovoid	Bintz	Municipal	Mun.Bonds	2,184	10,000
Fayette, Mo.		'35-36	60'x 90'a	Ovoid	Bintz	Municipal	Mun.& W.P.A.	6,488h	22,000
Mt. Pleasant, Mich.		'37	60'x 90'a	Ovoid	Bintz	Municipal	Budget & WPA	4,007	$15,000
La Grange, Ill.		'37	50'x 75'a	Ovoid	Sunken	C'ntry Club	Assessment	939gi	14,400
Homewood, Ill.		'37	50'x 75'	Ovoid	Sunken	C'ntry Club	Assessment	1,281gi	16,400
Old Orchard Bch.Me.		'37	20'x 45'	Rect.	Bintz	Commercial	Private	994	2,500
Chaffee, Mo.		'37	60'x 90'a	Ovoid	Bintz	Municipal	W.P.A.	4,007	22,000
Wellsboro, Pa.		'36-37	60'x 90'	Ovoid	Bintz	Municipal	Mun.& W.P.A.	2,184	$16,000
Beaumont, Texas		'37-38	70'x105'	Ovoid	Bintz	Municipal	Mun.& W.P.A.	4,510	35,000
Olympia Fields,Ill.		'38	45'x 90'a	Rect.	Sunken	C'ntry Club	Assessment	585g	22,500
Paterson, N.J.		'38	50'x 75'a	Ovoid	Sunken	C'ntry Club	Assessment	1,121gi	17,000
Tampa, Florida		'37-38	80'x120'a	Ovoid	Bintz	Municipal	Mun.& W.P.A.	8,072m	60,000
Bangor, Pa.		'38-39	80'x120'a	Ovoid	Bintz	Municipal	Mun.& W.P.A.	6,218	$45,000
Jacksonville, Fla.		'39	75'x120'	Ovoid	Bintz	Municipal	Mun.& W.P.A.	6,356	48,500
Summit, N.J.		'39	35'x82.5'	Rect.	Sunken	C'ntry Club	Assessment	360gn	20,000
Flint, Michigan		'39	50'x 75'a	Ovoid	Sunken	C'ntry Club	Assessment	1,121gi	18,500
Lebanon,Pa.		'40	100'x165'a	Ovoid	Bintz	Municipal	Gift	3,731	70,000
Syracuse, N.Y.		'40	40'x 60'a	Ovoid	Sunken	C'ntry Club	Assessment	771gi	$15,000
Hackettstown, N.J.		'40	40'x 60'a	Ovoid	Sunken	Private	Private	169g	6,500
Wadsworth, Ohio		'40-41	70'x105'a	Ovoid	Bintz	Municipal	Municipal	4,510	25,000
New Martinsville,WVa.		'40-41	60'x 90'a	Ovoid	Bintz	Municipal	Mun.& W.P.A.	4,007	25,000
Zanesville, Ohio		'40-41	40'x 60'	Ovoid	Bintz	Municipal	Mun.& W.P.A.	1,652	12,000
Canton, Illinois		'40-41	70'x105'a	Ovoid	Bintz	Municipal	Mun.& W.P.A.	4,510	$40,000
Rochester, N.Y.		'41	50'x 75'a	Ovoid	Sunken	C'ntry Club	Assessment	1,306gi	25,000
Grand Rapids, Mich.		'41	60'x 90'a	Ovoid	Bintz	Municipal	Mun.& W.P.A.	4,007	25,000
Grand Rapids, Mich.		'42	60'x 90'a	Ovoid	Bintz	Municipal	Mun.& W.P.A.	4,007	25,000
Grand Rapids, Mich.		'42	60'x 90'a	Ovoid	Bintz	Municipal	Mun.& W.P.A.	4,007	25,000
York, Pa.		'46	80'x120'a	Ovoid	Bintz	Commercial	Private	7,640	$72,052
Evansville, Ind.		'46	30'x 50'	Ovoid	Sunken	Private	Private	0	4,570
Winston-Salem,N.C.		'46	40'x 60'	Ovoid	Sunken	C'ntry Club	Assessment	830	23,860
Wellsville, N.Y.		'46	60'x 90'a	Ovoid	Bintz	Municipal	Subscription b	4,007	62,500
N.Tonawanda, N.Y.		'46	80'x120'a	Ovoid	Bintz	Municipal	Bonds	7,298	106,277
Toronto, Ohio		'47-48	60'x 90'a	Ovoid	Bintz	Municipal	Sub.& Bonds b	4,007	$68,500
Mt. Kisco, N.Y.		'47-48	80'x120'a	Ovoid	Bintz	Municipal	Sub.& Bonds b	7,451	127,059
Toledo, Ohio		'47-48	25'x 60'	Oval	8-WP	Municipal	Labor Tax	None	43,000
Toledo, Ohio		'47-48	60'x 90'a	Ovoid	Bintz	Municipal	Labor Tax	4,890p	240,240
South Haven, Mich.		'48	50'x 75'	Ovoid	Sunken	Commercial	Private	367	21,000
Chadron, Nebraska		'48-49	60'x 90'	Ovoid	Bintz	Municipal	Sub.& Bonds	4029.1	$64,281
Kennett, Missouri		'48-49	70'x105'	Ovoid	Bintz	Municipal	Bonds	4509.8	61,459
Cushing, Oklahoma		'48-49	70'x105'	Ovoid	Bintz	Municipal	Bond Issue	5943.0	127.461
Elmira, New York		'48-49	80'x120'	Ovoid	Bintz	Municipal	Bond Issue	7361.4	149.926
Callicoon, N.Y.		'49	40'x 60'	Ovoid	Sunken	Municipal	Subscriptions	333.0g	14,412
Louisville, Ky.		'49	75'x165'	Rect.	Sunken	Municipal	Bonds	8555.6	$245,000
Dixon, Illinois		'49-50	80'x120'	Ovoid	Bintz	Municipal	Bond Issue	7361.4	148,712
Raymond, Wash.		'49-50	50'x 75'	Ovoid	Bintz	Municipal	Subscriptions	2553.5	49,500
Saginaw, Mich.		'49-50	40'x 60'	Ovoid	Sunken	C'ntry Club	Subscriptions	382.0g	23,000
Binghamton, N.Y.		'49-50	70'x105'	Ovoid	Bintz	Municipal	Bond Issue	5943.0	128,665
Monteveido, Minn.		'49-50	60'x 90'a	Ovoid	Bintz	Municipal	Bonds	5,058	$90,000
Elgin, Illinois		'49-50	50'x 75'	Ovoid	Sunken	Camp	Donations	859i	25,000
Pittsford, N.Y.		'50-51	40'x 60'	Ovoid	Bintz	C'ntry Club	Assessment	630i	25,000
N. Attleborough,Mass.		'50-51	60'x 90'a	Ovoid	Bintz	Municipal	Subscriptions	2,184	43,000
Euclid, Ohio		'50-51	75'x150'a	Rect.	Sunken	Municipal	Park Bonds	7,982	225,000
Mt. Morris, Ill.		'50-51	24'x 36'	Ovoid	Sunken	Private	Private	0	$ 3,000
Kenmore, N.Y.		'50-51	80'x120'a	Ovoid	Bintz	Municipal	Bonds	7,289	160,000
Ilion, N.Y.		'50-51	70'x105'	Ovoid	Sunken	Municipal	Budget	929	64,000
Arlington, Ohio		'50-51	50'x 75'	Ovoid	Sunken	Municipal	Subscriptions	740	27,500
Warren Twp., Ohio		'50-51	75'x105'a	Ovoid	Bintz	Municipal	Bonds	4,576	118,000
Bluefield, W.Va.		'51-52	80'x120'	Ovoid	Bintz	Municipal	Subscription	4,354	$80,000
Emmalena, Ky.		'52-53	40'x 60'a	Ovoid	Sunken	Camp	Gifts	75g	16,000
Middleport, Ohio		'52-53	60'x 90'a	Ovoid	Bintz	Municipal	Bonds	2,184	75,000
Tiffin, Ohio		'52-53	80'x120'a	Ovoid	Bintz	Municipal	Bonds	6,764	120,000
Bremerton, Wash.		'52-53	60'x 90'a	Ovoid	Bintz	Municipal	Donations	2,184	65,000
Boise, Idaho		'52-53	Repair	Rect.	Sunken	Municipal	Bonds	-----	$38,000
Boise, Idaho (2)		'52-53	60'x 90'	Ovoid	Bintz	Municipal	Bonds	2.184	154,000
Coldwater, Ohio		'52-53	60'x 90'a	Ovoid	Sunken	Municipal	Subscriptions	1,060	Ownr Blds.
Boyne Falls, Mich.		'52-53	33'x 50'	Ovoid	Sunken	Commercial	Private	0	15,000
Marlette, Mich.		'52-53	50'x 75'a	Ovoid	Sunken	Municipal	Donations	1,028	Ownr Blds.

NOTES as indicated above:

a. Children's Wading Pool in connection with pool.

b. By Popular Subscription & Park funds or Municipal bonds.

c. Includes large three-story Community House, 63 x 71 feet.

d. Does not usually include engineering,added improvements, service lines, or land. Add about 15% - 25% for these items.

e. Twin pools, each 75'x225'.

f. Includes Sand beach, and two-story Community Building,95 feet by 125 feet.

g. Filter Room with pool,that is, part "Bintz Pool."

h. Includes small Memorial Head-house, 17 feet x 41 feet.

i. Part "Bintz Pool",that is; bathroom for guests & children.

j. Net areas mostly, i.e., do not include Building Walls.

k. Bath house, Gross area.

l. The above does not include list of licensed Bintz Pools at Bridgeville, Pa.,New York City, Glenn Echo, Washington, D. C., or Terre Haute, Ind. (Total number licensed pools - four).

m. Includes small 2 story Head-house, 18' x 41.5'.

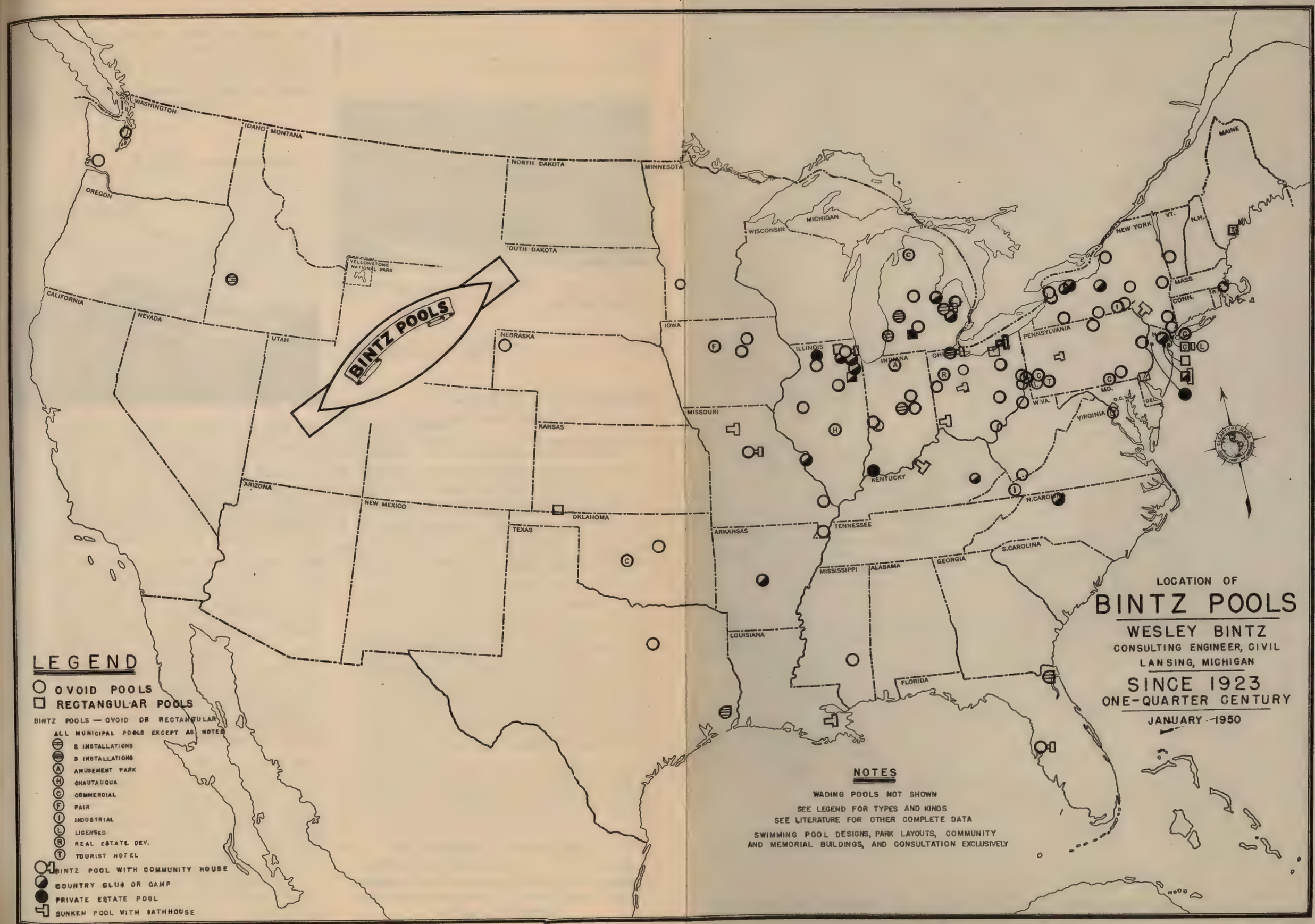
n. Bathhouse facilities for children and guests separately, by others, approved by Bintz.

o. Wading pools - 8, no bathhouse 6-12" deep.

p. A combined Swimming Pool and Community Bldg. with Apartment, 1st-aid room, storages, Committee Rooms, Lobby, Heating Plant, and stairway on first floor, which ties in with locker room of Bintz Pool; & large Community Room and Kitchen, lobby and storage on the 2nd floor which ties in with concourse floor around Bintz Pool.

WESLEY BINTZ
CONSULTING ENGINEER. CIVIL

Swimming Pool Designs and Park Developments
Exclusively Since 1923 . . . 301 S. Wash. Ave.
Lansing 25, Michigan


LOCATION OF
BINTZ POOLS
WESLEY BINTZ
CONSULTING ENGINEER, CIVIL
LANSING, MICHIGAN
SINCE 1923
ONE-QUARTER CENTURY
JANUARY - 1950
BINTZ POOLS
WASHINGTON
IDAHO
MONTANA
OREGON
CALIFORNIA
NEVADA
UTAH
ARIZONA
NEW MEXICO
COLORADO
WYOMING
YELLOWSTONE NATIONAL PARK
NORTH DAKOTA
SOUTH DAKOTA
NEBRASKA
KANSAS
OKLAHOMA
TEXAS
MINNESOTA
IOWA
MISSOURI
ARKANSAS
LOUISIANA
WISCONSIN
MICHIGAN
ILLINOIS
INDIANA
OHIO
KENTUCKY
TENNESSEE
MISSISSIPPI
ALABAMA
GEORGIA
FLORIDA
S.CAROLINA
N.CAROLINA
VIRGINIA
W.VA.
PENNSYLVANIA
NEW YORK
VT.
N.H.
MAINE
MASS.
CONN.
R.I.
DEL.
MD.
D.C.
LEGEND
OVOID POOLS
RECTANGULAR POOLS
BINTZ POOLS — OVOID OR RECTANGULAR
ALL MUNICIPAL POOLS EXCEPT AS NOTED
2 INSTALLATIONS
3 INSTALLATIONS
AMUSEMENT PARK
CHAUTAUQUA
COMMERCIAL
FAIR
INDUSTRIAL
LICENSED.
REAL ESTATE DEV.
TOURIST HOTEL
BINTZ POOL WITH COMMUNITY HOUSE
COUNTRY CLUB OR CAMP
PRIVATE ESTATE POOL
SUNKEN POOL WITH BATHHOUSE
NOTES
WADING POOLS NOT SHOWN
SEE LEGEND FOR TYPES AND KINDS
SEE LITERATURE FOR OTHER COMPLETE DATA
SWIMMING POOL DESIGNS, PARK LAYOUTS, COMMUNITY
AND MEMORIAL BUILDINGS, AND CONSULTATION EXCLUSIVELY

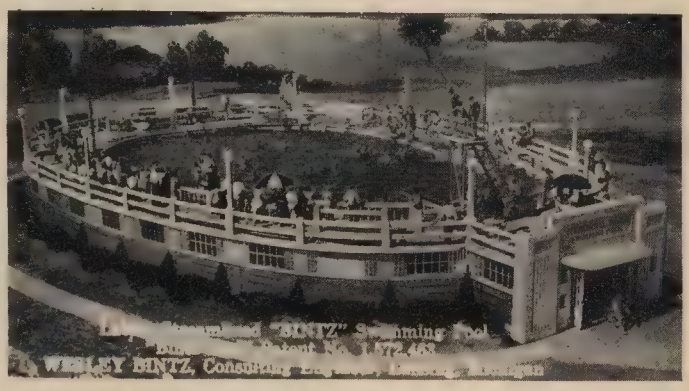
CALCULATED CALUMNY

Let's have a quiet little talk about some noisy statements, "Calculated Calumny" (Diplomatically—A Lie) calculated to befuddle you in the matter of that swimming pool. Let's start out with an actual example:

HERE'S WHAT THEY COULD HAVE HAD FOR A MEMORIAL . . . . .

AND →

FOR $70,000.00 . . . . . .



HERE'S WHAT THEY GOT FOR . . . . . A MEMORIAL

← BUT

. . . . . IT COST THEM $80,000.00

AND, That isn't half the story. They get: Less permanence, Less beauty, about one-fourth the amount of Reinforcing steel (that's concrete insurance), Wooden Construction in bathroom as against a possible 100% permanent bathhouse, a pool which won't stand up against the Winter's frost (the builder said, "Leave the pool full of water in the wintertime", which to an Engineer means, "They are not doing a proper job of Engineering, so you'll have to do the job for them each winter and leave the pool full of water to protect it against frost."), a bathhouse about three-fourths as large, nowhere near as much or as nice bathhouse equipment, and other points too numerous to mention in size, details, design, permanence and equipment, and for an extra $10,000.

SO: Because they believed that CALCULATED CALUMNY, "We can give you as much in a Sunken Pool and bathhouse as a Bintz Pool", they spent an extra $10,000, got much less in every way, and got a Memorial that must make the veteran hang his head in shame, and all this in spite of the fact that they were shown a dozen Comparisons of Cost proving that "BINTZ POOLS" cost 25-40% less and have a dozen advantages that nobody, including ourselves, could give them in a conventional Sunken Pool and Bathhouse. "But, they didn't believe me."

AND HOW DO SUCH THINGS HAPPEN: They bought a merchandising service, on a piece-meal basis, when they should have employed Professional Service. Ethical Doctors, Lawyers and Professional Engineers don't take a job piece-meal. On the above pool, they said, "Let us build your pool—you build the bathhouse." Others do it this way: first survey, then studies, then plans, then contracts, i.e., get the Owner involved, and then he can't back out. We believe in taking the entire contract, at the beginning, and being entirely responsible for all of the work in all of its phases.

PEOPLE shouldn't, but do, let the following enter into their selection of Professional Service: (1) Personality—Bintz ain't got none; (2) Fancy Talk—Bintz will make you mad telling you the truth; (3) Friendship—Bintz doesn't want to go fishing with you; (4) Votes—Bintz won't deliver a single vote; (5) Wrong kind of Professional Service—Bintz is a Registered (about 25 states) Professional Engineer; (6) Lack of Experience—Bintz has 26 years of exclusive pool experience and over 100 pools built and under actual contract; (7) Lack of Proper Engineering Knowledge, a swimming pool is a Structural Engineer's problem—Bintz knew Structural Engineering first, swimming pools second; (8) Square pegs trying to get into round holes—Bintz won't design you a church, it's an architect's job; and (9) CALCULATED CALUMNY—Bintz will tell you the truth regardless of who it hurts. You can't expect the other fellow to tell you the exact and full truth about our service. He'd be talking himself out of a job. After all, he's human, but, even being human doesn't permit the use of CALCULATED CALUMNY.

WELL, the above believed remark got the OWNER into a lot of admitted trouble. Look out for such remarks and thoughts:

(1) They "heard" that our pool wall (or something else) fell in. (Don't worry — it didn't.) Imagine spending the public's money on a "horse-race bet" basis. Get the facts.

(2) Local Talent say they know all about pools. Sure, they have to live. But, at your personal or public expense?

(3) The local architect said, "Just a hole in the ground." The Mayor didn't believe him. Not smart. Just Common Sense.

(4) Would you see a Ford dealer to buy a Chevrolet? No? Then why not see Bintz personally for Bintz SERVICE, Bintz POOLS, Bintz information, and actual facts about Bintz.

(5) "We can give you a bigger pool for less money." Correct. Repeat several times and the END result is a hole in the ground. And what happens to design, bathhouse, permanence, equipment, details, etc.? They're gone too. See pictures above. What a silly remark. If you're talking about the same thing, and the remark is senseless, otherwise, it's CALCULATED CALUMNY. There is only one way the above statement can be essentially true, and that is with a basically different design. THAT you get in a Bintz Pool. Louisville, Kentucky, believed some CALCULATED CALUMNY and now is paying $125,000 MORE (better than 50%) because they changed from a BINTZ POOL to a sunken Pool and Bathhouse. Although we design sunken pools and bathhouses, we can't save you a cent over somebody else's design. All we can do is to put 26 years of experience in the layout, design, details, etc. BUT, that is doggoned important. A swimming pool is no Detail, but details (Experience) make a swimming pool.

If you were spending your own money, thousands and thousands and thousands of dollars, mind you, you'd spend a thousand or so less than 1%, getting the facts. And isn't the public entitled to the same run for their money? Get the facts from their source. It will cost you about 1/4th to 1/3rd more of the money you have to spend for a pool, if you don't.

WESLEY BINTZ

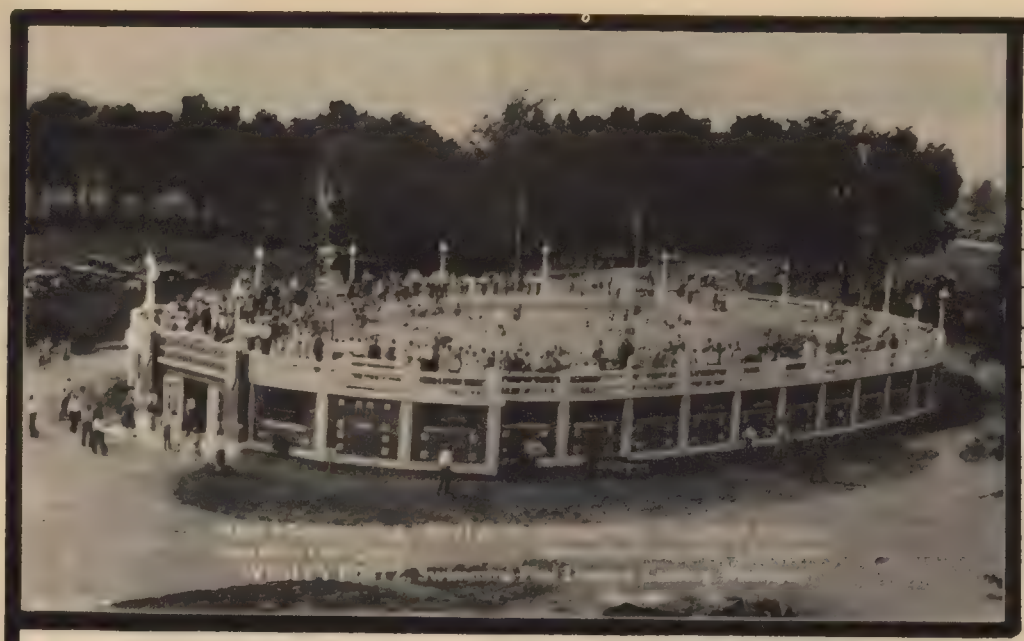
CONSULTING ENGINEER, CIVIL

Swimming Pool Designs and Park Developments

Exclusively Since 1923 . . . 301 S. Wash. Ave.,

Lansing 25, Michigan

Reprinted from the 1949 Swimming Pool Data & Reference Annual



GREENFIELD,
Indiana.
"Bintz Pool,"
80'x120' Ovoid.
Bathroom B'ld'g
equiv., 30'x 215'.

CHILLICOTHE,
Missouri.
Sunken Pool,
80'x120' Ovoid.
Bath-house,
34'x84'.

See Comparison, Next Page.

See Pictures, Preceeding Page1.

GREENFIELD-CHILLICOTHE

A RESUME' OF
Dimensions, Areas, Quantities, Equipment, Prices, Contracts, and

A COMPARISON OF

a "BINTZ POOL" at Greenfield, Indiana, and
a Sunken Pool and Bath-house at Chillicothe, Missouri.

Both pools designed by Bintz.

ITEM to be compared	CHILLICOTHE Sunken Pool	GREENSFIELD "Bintz Pool"	PER CENT Increase	SEE Note
Pool, Size, Ovoid	80' x 120'	80' x 120'	0.	1
Pool, Areas, Sq. Ft.	8,156.7	8,156.7	0.	1
, Volume, Gallons	256,000	256,000	0.	1
, Depths	3' to 9'	3' to 9'	0.	1
Overall Size, Feet	112 x 220	113 x 166.5		2
Area Project, Sq. Ft.	20,042.7	15,300.2	-31.0%	2
Concourse Floor, Width, Ft.	12.0	16.5	37.5%	3
Area, Sq. Ft.	6,147.0	7,143.5	16.2%	3
Bathroom, Sq. Ft. Net	3,045.9	6,217.5	104.1%	4
Bldg. Equiv.	30' x 105'	30' x 215'	104.1%	4
Construction, Brick and	Wood	Concrete	Plus	4
Equipment			Plus	5
Baskets or Hangers	452	600	Plus	
Toilets	5	9	Plus	
Urinals	2	1	-	
Lavatories	2	10	Plus	
Showers	20	10	-	
Footbaths	1	2	Plus	
Lighting, Watts	7,060	13,720	Plus	
Purification Sys.Gal/Hr.	18,000	18,000	Same	
Dressing Rooms	42-2½',16-5'	10-3',33-5'	Plus	5
Public Toilet Rooms	2	2	Same	5
Ladders	8	8	Same	
Diving Boards	2	2	Same	
Depth Signs	9	10	Plus	
Pipe for Clothes Hangers	164'	240'	Plus	5
Use of Wood	Roof-Bathhouse	None at all	Plus	4
Enclosure	Wire Fence	Ornate Brick Wall	Plus	6
Architecture	In Bathhouse--A subsidiary structure	In Pool-The Main Structure	Plus	6
Footings, Depth	3.0	3.0	Same	
Subdrainage	Yes	Yes	Same	
Children's Pool, Sq. Ft.	623.	295.6	-	7
Depth in inches	6-24	6-12		7
Recirculation Motor,H.P.	5.0	5.0	Same	8
Spectators	No	Yes	Plus	9
Labor & Material Prices			Same	10
Common Labor, per hr.	$0.35-.40	$0.35- .40		
Carpenter, per hr.	.65-.85	1.22½		
Bricklayer, per hr.	1.00-1.50	1.62½		
Lumber, Delivered, per M	45. -50.00	35-40.00		
Brick, per M		15-22.00		
Gravel, per cu. yd.	2.75	1.80		
Sand, per cu. yd.	1.50	1.60		
Cement, per bbl.	2.80	2.12		
General Contract	$21,648.72	$16,361.25	-32.3%	11
Plumbing	2,916.88	2,650.00		12
Lighting	917.00	598.67		12
Pool Equipment	827.00	2,037.90		12
Painting	690.40	1,511.50		12
Purification Plant	2,975.00	2,932.00		12
Total Contract	$29,975.00	$26,091.32	-14.9%	13
Pool, Area, Sq. Ft.	8,156.7	8,156.7		14
Concourse Floor, Sq. Ft.	6,147.0	7,143.5		14
Bathroom Area " "	3,045.9	6,217.5		14
Total	17,349.6	21,517.7	24.0%	14
Cost per Sq. Ft.				
General Contract	1.25	.76	-64.5%	14
Total Contract	1.73	1.21	-42.9%	14
Average Increased Cost			53.7%	14

ANALYSIS OF COMPARISON: This comparison of dimensions, quantities, equipment and cost is relatively simple to understand because in this comparison the pool sizes are exactly the same. The reader merely has to glance over this comparison and see where in certain items he actually gets more in a "BINTZ POOL" over a common type sunken pool for nearly $4000less money. The reader must not think, that in a "BINTZ POOL" all he gets is a bigger bathhouse and a larger concourse floor and better details at less cost as this comparison indicates. Those are merely items which this comparison favors. Other comparisons, which we have, show larger pools or other items in excess, but always showing the old-style, common-type sunken pools to cost from 25% to 40% (5 other actual comparisons show 44.6 to 71% more) more than a Modern "BINTZ POOL".

1. Both pools are of exactly the same size having the same dimensions, square feet of area, capacity, and depths, one being a sunken pool and the other a raised or "BINTZ POOL".

2. You will note that the sunken pool, even though having a much smaller bathhouse as indicated later, takes up 31% more ground space thanthe Bintz Pool, thereby allowing less space for landscaping, walks, drives,playgrounds, etc. Or analyzed another way, on a given size plot of ground you can put a much larger "BINTZ POOL" than you can a sunken pool.

3. The concourse floor is 4'6" wider in the Bintz Pool and has an area of 16.2% more than the sunken pool. More space for bathers to lounge around, very important because only one out of three bathers is in the water at any one time.

4. The bathroom is over two times as large, being 104.1 per cent larger. Assuming an equivalent of a building in the Bintz Pool of 30 feet wide, we would have a bathhouse 215 feet long whereas the bathhouse for the sunken pool would only be 105 feet long. The construction of the Bintz Pool bathroom is 100% concrete and brick with the exception of doors and frames. In the sunken pool the entire roof is of wooden construction and otherwise with wooden doors and frames. You may ask "Why the extra bathroom area?".The answer is: larger and more spacious entrance room, larger checking facilities,larger changing rooms for men and women, larger public toilet rooms,and larger room for filtration, purification and recirculation equipment, storage, special equipment and electrical control. And add the following which the sunken pool doesn't

have at all: A First Aid room and an Office.

5. The equipment is an item which would cost the same in either type of swimming pool. A perusal of the equipment will show that both pools are equipped just about the same with the following four (4) noticeable exceptions in favor of the Bintz Pool: the dressing rooms are larger, have more room, there are 148 more clothes hangers, more lighting is provided, and the public toiletrooms are much more spacious. (Note. The purification system calls for three 78" Vertical filters. One of these units was temporarily omitted on both projects.)

6. You will note that the sunkenpool is enclosed in a wire fence, always unsightly. Note the people, looking through it, like children with their noses to a window pane. In the Bintz Pool, the enclosure is an ornate paneled 8-foot tapestry brick wall. The architecture in one case is in a building which is a subsidiary structure. In the Bintz Pool, the architecture is in the pool proper, which makes it unique, interesting, attractive, and out of the ordinary, but not freakish. Note also that the Bintz Pool has a long racy effect and does not cut into the landscaping like the twice-as-high Bathhouse of the sunken pool. By a late development on the Bintz Pool, we can sink it down so it looks like a sunken pool without any bathhouse, and an entrance or a Memorial Arch indicates the entrance.

7. We aim to please but that is what they wanted. In our opinion, and backed by large experience, the kiddies' pool is larger than necessary in the sunken pool in relation to the pool proper. It is much too deep in its deepest part. Certain state regulations would immediately throw this into a swimming pool class which would require recirculation of the water, scum gutter, etc. The extra cost is little as it only requires about 38 feet more of 6"x9" curbing which would cost about $16.50.

8. The recirculation system usually sets on top of the concourse floor in a sunken pool and for this size pool would require 1.5 more H.P. in the motor for recirculation of the water than would be required for the Bintz Pool. Figure this out yourself, assuming your motor is running about 15 hours a day. An appreciable daily increased operating cost results. A filter pit 16½' x 18½' was subsequently built on the sunken pool project to eliminate this continual extra cost. Never necessary in a Bintz Pool.

9. No particular provision has been made for spectators in the sunken pool except that they may look through the wire fence, very hard on the eyes, as attested by many spectators. In the Bintz Pool, actual and definite provision is made for the spectators, with no necessity of looking through an unsightly wire fence.

10. A perusal ofthe material and labor prices will indicate that they show very little, if any, increment in favor of either pool.

11. You will note that the general contract on the Sunken Pool is 32.3% more than for the Bintz Pool.

12. Plumbing is more for the sunken pool although less plumbing is actually used, since longer service lines are required, there is no access to scum gutter drains, deeper outlet and sewer lines are required, etc. Lighting should be slightly less for the Sunken Pool because less lights are used. More equipment on Bintz Pool. Less painting on Sunken Pool because much smaller bathhouse, and ceiling not painted whereas in the Bintz Pool everything is painted. Purification should be same, freight probably causing slight difference. (See note under 5).

13. Don't forget more equipment and larger areas for Bintz Pool, and note total contracts 14.9% more for Sunken Pool than Bintz Pool.

14. By adding allfloor areas and reducing to unit costs it will be seen that on the General Contract alone, the real basis since equipment should cost about the same, the sunken pool costs 64.5% more than a Bintz Pool. On total costs it shows the sunken pool to cost 42.9% more than a Bintz Pool. An average would be 53.7%, in other words, a half more. Do they get it? Architecturally, you're the Judge. Actually bigger Concourse Floor, twice as big bathhouse, for $5,287.47 less money, or with more equipment and for $3,883.68 less money. Can you beat it? NO, not even Bintz can beat his own Patented Pool, since we designed them both.

RECAPITULATION: From the foregoing we quickly note in this comparison between a Bintz Pool and a sunken pool that we have:

1. The pools are the same size.
2. Less land required by 31%.
3. Larger concourse floor by 16.2%.
4. Larger bathroom by 104.1%, over twice as large.
5. Structure better built, no wood used.
6. More equipment.
7. Better architecture, no unsightly fence.
8. Less maintenance costs, because better access to service lines, and less chance for frost action on pool wall.
9. Provision for Spectators.
10. On basis of areas only, ignoring the other advantages, the sunken pool cost 64.5%more than"BINTZ POOL".

TO SUBSTANTIATE THE ABOVE (These comparisons are yours for the asking.)

1. Asunken pool at Joliet, Ill., cost 71% more than a Bintz Pool at Wheaton, Illinois.
2. Asunken poolat Indianapolis, Ind. cost 63.8% more than a BINTZ POOL at Indianapolis, Indiana. Bids opened same time. Sunken Pool never built on account excessive cost as compared with a Bintz Pool.
3. A sunken pool at Cleveland, Ohio, cost 44.6% more than a BINTZ POOL at Cleveland, Ohio.
4. Asunken pool at New Orleans, La. cost 69.5% more than a BINTZ POOL at Cleveland, Ohio. Both pools designed and supervised by Bintz.
5. Asunken poolat Indianapolis, Ind. cost 50% more than a BINTZ POOL at Watertown, N. Y.

Locker and Equipment Room

The above shows you the WHY of the BINTZ POOL. This is the room where all equipment, (lockers, toilets, etc.,) is placed.

Every pool has the pool wall (as shown on the *Left*) and the concourse floor overhead. Bintz construction makes them serve two purposes, namely a roof and side wall, thereby obtaining a large room by merely adding another wall and floor. This special feature (which is patented) reduces cost of construction, economy of ground space and facilitates and simplifies maintenance and supervision.

WESLEY BINTZ

Swimming Pool Designs and Consultation

[illegible] POOLS, [illegible]

COMPARISON of AREA, [illegible] & COST on a BINTZ POOL and a SUNKEN POOL

The "BINTZ POOL" in this Comparison was built in Indianapolis. Plans for the "Sunken Pool" were contracted for, for another part, at the same time as the BINTZ POOL. Bids were opened only a month or so apart; so costs were the same: The Sunken Pool was of permanent construction, comparable as regards permanence, architecture, and equipment, to the Bintz Pool. The Sunken Pool was a rectangular pool, with bath-house approximately 54'-4"x177'-0". All bids were rejected on the sunken pool, and it was never built, the reason for this being its excessive cost as compared with the BINTZ POOL, with its advantages, oversize, and more and better equipment.

ITEMS to be COMPARED	SUNKEN POOL	BINTZ POOL	INCREASE
Size Pool	90'x190' Rect.	128'x192' Ovoid	[illegible]
Pool Area	16,890 SqFt.	19,657 SqFt.	16.[illegible]
Volume of Water	57,942 CuFt	79,130 CuFt	26.[illegible]
Depth of Water	1' to 8'5"	3' to 9'	plus
Water Wadable 3'-5'	76%	81%	6.[illegible]
Water Swimmable, 3' or over	42%	100%	138.[illegible]
Concourse Floor Area	10,062 SqFt	10,819 SqFt	7.[illegible]
Bathroom Area	7,807 SqFt	9,319 SqFt	19.[illegible]
Recirculation	10,000 Gals./hr.	25,000 Gals./hr.	150.[illegible]
Plumbing Fixtures	48	79	64.[illegible]
Lockers	1,486	1,640	11.[illegible]
Springboards	2 Stationary	2 Adjustable	plus
High Dive	2 bds. 8'x16'	11 boards, 3' to 12'	plus
Slides	None	2	plus
Swings	None	2	plus
Window sash	Wooden	Steel	plus
Scum Gutter	None	Around entire pool	plus
Pool Floor Subdrainage	None	Complete system	plus
Architecture	In house-a-subsidiary structure	In Pool-the main Structure	
CONTRACT PRICE	$[illegible].50	$60,937.95	[illegible]

NOTE: 1-Bintz Pool larger by one-sixth
2-Bintz Pool bathroom area larger by one-fifth
3-Bintz Pool better equipped
4-Bintz Pool better detailed
5-Sunken Pool COST 63.[illegible] Per Cent MORE than the BINTZ POOL.

Results; 1-Sunken Pool was never built.
2-another Bintz Pool was built instead.

The [illegible] said: "Why pay $100,000 for a pool when we can get more and a better pool for $60,000."

[illegible] Bintz
Consulting Engineer, Civil
[illegible] Washington Avenue
Lansing 23, Michigan

HITCH PARK "BINTZ" SWIMMING POOL.
Bathroom (Bldg.Equiv.) 30' x 260'.
"Bintz Pool" Pat.No.1572463.
Size 100' x 165' Ovoid.

Newburgh, N. Y.

WESLEY BINTZ
B.C.E., M.S. in E.,
CONSULTING ENGINEER (CIVIL)
Swimming Pool Designs Exclusively
LANSING, MICHIGAN

Newburgh Becomes A Swimming Pool Owner

AUGUST, 1931

THE City of Newburgh's largest playground, the Delano Hitch Recreation Park, contains about twenty-five acres, and was given to the City about ten years ago by Annie Delano Hitch, one of Newburgh's greatest benefactors and an aunt of Governor Franklin D. Roosevelt.

Mrs. Hitch died about five years ago, and the Lions Club, of which she was an honorary member, began to raise a fund to build a swimming pool to her memory in the park that bears her name. This park had been developed into a very fine recreational center with tennis courts, baseball diamonds, football field, a stadium, and many other features enjoyed by thousands every day, and the Lions felt that a swimming pool would prove to be a much needed and popular recreational facility.

The Lions Club raised $20,000 to which the Newburgh taxpayers added an appropriation of $25,000, making a total subscription of $45,000 with which to build the pool.

A committee consisting of the Newburgh Recreation Commission, the City Council, and representatives of the Lions Club asked pool architects to submit plans, and Wesley Bintz, of Lansing, Michigan, was selected, *an Engineer.*

Mr. Bintz prepared plans and specifications; and bids were opened on June 30. A complete resume of these bids is hereto annexed.

Contracts were awarded on the basis of bids received and Newburgh is to have a unique pool. It is a Bintz Patented pool sunken five feet into the ground with a berm sixteen feet wide and four feet high around the pool and a moat, eight feet wide and four feet deep between the berm and the pool structure.

(See "Cross Section" top of picture, page 1)

Anyone driving down the street will see a beautiful and inviting swimming pool with no visible bathhouses.

Only Arch Visible

The only structure to be seen will be the Memorial Arch, 14 feet high and twenty-four feet long which will appear at the entrance to the pool. This Memorial Arch will be a very effective and beautiful structure, and will have a bronze plate carrying the inscription, "In Memory of ANNIE DELANO HITCH, 1849-1926, DONOR of this Park and a lover of young people".

We quote from an article which appeared in the Newburgh News, "The difference in the estimate made by Mr. Bintz and the lowest bid received was $31.88, a remarkably close estimate. Anything within $1,500 would have been considered good".

"In the Bintz Patented Pool, which is the type selected for Newburgh, the over all dimensions including the bathroom will be 133 by 222 feet. The actual size of the water will be 100'x165' Ovoid, with a total area of 13,515 square feet. Its depth will be from three feet to nine feet and the volume of water will be 449,000 gallons. The swimable area of the pool will be 100%; the wadable area being from 3 to 5 feet deep or 84.8 per cent of the area. The concourse or walk around the pool has a total area of 8,592 square feet, its width ranging from 16½ feet to 23 feet. The bathroom area is 7,441 square feet, the total equivalent to a building 30'x260'."

"The complete floor areas, including that of the pool, bathroom and concourse will be

SOMETHING NEW IN "BINTZ POOLS"

THIS is a "BINTZ POOL" depressed down to the usual window-sill height with a berm 4 ft. high and 16 ft. wide around the pool, and at the same elevation as the concourse floor. Between the berm and pool is a moat or areaway 4 ft. deep and 8 ft. wide. From the street level, this pool looks the same as a sunken pool *without* any bathhouses. Usual "Bintz Pool" advantages and economies are the same, this pool requiring more excavation, but less or no architectural treatment. ADVANTAGES: No visible bathhouses; All architectural treatment in an attractive Memorial Arch or Front; Berm for Spectators and/or Sand Beach; and Wonderful Landscaping Possibilities.

GENERAL DIMENSIONS & QUANTITIES

Pool Proper, Ovoid,	100' x 165.
- Area, SqFt	13,515.7
- Depths, Feet	3' to 9.
- Volume, Gallons	449,000.
- Swimmable, 3' or over	100%
- Wadable, 5' or under	84.8%
Concourse Floor-Widths	16.5-23'!
- Area, SqFt	8,592.4
Bath-room - Area, SqFt	7,441.4
- Building Equiv.	30' x 260.
Children's Pool	12' x 30.
- Depths, Inches	6" - 12.
Capacity - at one time	1,200
- Daily, Bathers	3,500

HEALTHFUL
WHOLESOME
SAFE
INEXPENSIVE
RECREATION

ACTUAL CONTRACTS (Union Scale)

General Contract	$24,656.00
Memorial Arch	900.00
Total Construction	25,556.00
7. Plumbing	4,595.00
8. Electrical	820.00
9. Spec. Equipment	545.00
10. Woodwork	600.00
11. Concourse Floor Rail.	850.00
12. Painting	800.00
13. Purification Equip.	3,880.00
Total Equipment	12,090.00
TOTAL ALL CONTRACTS	$37,646.00

Our Original instructions were to keep the total pool cost inside of $40,000.00. You can see how well we did it, just like we always do. Subsequently, certain changes and additions were made which run the total cost up to..... $45,000.00.

equal to 29,550 square feet. The children's wading pool covers a floor space of 12'x30' and has a depth of 6" to 12". The total capacity of the pool for bathers at one time is 1200 or 3500 for all day."

Construction Data

"Interesting construction data contains in its summary that there will be 2650 cubic yards of excavation, 555 cubic yards of concrete, and forty-seven tons of steel, or 15 miles of reinforcing bars. The number of square feet of windows will be 977 with 2800 lineal feet of drainage and sewer tile. There will be 92 electric lights, 19,000 sq. feet of painting and a final 45,000 gallon per hour purification plant to filter, sterilize, and recirculate the water and keep it up to drinking water standard."

Please be sure to Read this Paragraph

"By the Bintz Pool Newburgh will have the advantage over a sunken pool and bath house originally planned of a pool seven and one-half per cent larger, a bathroom two and one-quarter times as large, a beautiful memorial arch in place of a cheap bathhouse, and almost $3000 worth more of pool and bathhouse equipment. There will be a place for 300 spectators who do not have to look through a wire fence (which can be used for a sand beach if desired, since it is on the same level as the concourse floor around the pool) and one of the greatest advantages lies in the fact that the City has saved nearly 8000 square feet of ground area for other park purposes, eliminated an unsightly wire fence and gained a more compact, usable, more beautiful, better structurally and more easily handled pool, with less maintenance cost and upkeep and at the same time secured a more modern, complete swimming pool."

(Proving again that a Bintz Pool is 25%-40% cheaper to build than an old-style, two-unit sunken pool and bathhouse of equal size, permanence, details, & construction. Notice added features that can't be expressed in units of dollars and cents: Beauty, spectators, sand beach, less land, no fence, compactness, better built and a MODERN POOL.)

"Mr. Bintz will spend considerable time in Newburgh during the construction of the pool. His selection as Engineer was based primarily because he is a pool specialist. He is a graduate of the University of Michigan, receiving the degrees of Bachelor of Civil Engineering and Master of Science in Engineering. He is a member of the American Park Society, the National Recreation Association, the American Association for Hygiene and Baths, and the American Society of Civil Engineers. He is a registered engineer and has a license to practice engineering in Michigan, New York, and Indiana." **(Illinois, Iowa)**

"It is hoped that the pool can be completed in two months with a possibility of an opening and dedication made possible by Labor Day." The Governor of the State, Franklin D. Roosevelt, hopes to be present at the dedication."

(This pool was dedicated by President Roosevelt on 6/27/32)

Mr. Bintz supplies the writer with the following information from the plans and specification. The general contract bids, as shown in the resume of bids with this article, are for a complete pool except items 7-13 listed otherwise. These contemplate equipment and construction as noted.

The plumbing under 7a is for 6 toilets, two sets of five stall urinals, four lavatories and sixteen showers. 7b is for roughing in 8 toilets temporarily omitted. The plumbing further includes 12" outlet, 6" inlet, scum gutter drains, 4" water service, wading pool and foot-bath connections, Complete valve nest, Filter connections, pipe ladders, outlet covers, toilet paper racks and paper, and other small miscellaneous items.

Item 8 is for 84 lights in the bathroom, 8-1000 floodlights, motor connections and switches.

Item 9 for special equipment includes Bintz 11-board High Dive, one one-meter springboard, guard rope and floats, Angles, and Is for locker benches, and steel poles for flood lights.

Woodwork

The woodwork under item 10 is for 48 feet of 2" oak top counter with shelves, 40 feet of 5 shelf shelving, 8 changing benches for men, 26 feet of vanity shelves, six toilet room partitions and 32 changing room partitions for the women.

The concourse floor railing involves 707 feet of 24" 2"-mesh No. 9 wire chain fence with 1½" top and bottom rails, all galvanized, and installed. Covered in item 11.

Painting under Item 12 is for 4555 square feet of wood painting, 13,800 square feet of concrete painting, 570 window panes, 10 depth signs, and 610 letters in direction signs.

Purification Equipment

Item 13 is for purification equipment and involves 4-109" vertical filters (2 temporarily omitted from contract), all piping, valves, pressure gauges, flow indicator on each tank, observation glasses, strainers, all filtering media, two chemical tanks, 10 H. P. pump and motor, hair strainer with extra screen, all connected, painted and installed.

The construction and layout contemplates equipment to take care of 1200 bathers at one time. There is space for 1080-12"x15"x42" lockers, 18-10' changing benches for men, and 9 sets of 8 each or 72 changing rooms 2' 6x3' 6 for women.

The bathroom is divided up as follows, First Aid Room and Office, each 8'x12'; entrance lobby 12'x50'; men's and women's bather's dressing room, each 14'5"x160'; men and women's public toilet room each 14'5"x10'; and an equipment and control, room 18'x45'.

Besides already noted the construction provides for two foot-baths, 3 stairways, 467 feet of continuous floor drain, 540 feet of expansion joint in pool floor, 174 feet of partitions, 1800 square feet of carborundum rubbed concrete, all floors and outside wall sub-drained with gravel or cinders and subdrainage system, 10 special concrete depth signs, 443' continuous lip scum gutter, all fine grading around pool, and a bathroom 100% reinforced concrete and steel construction.

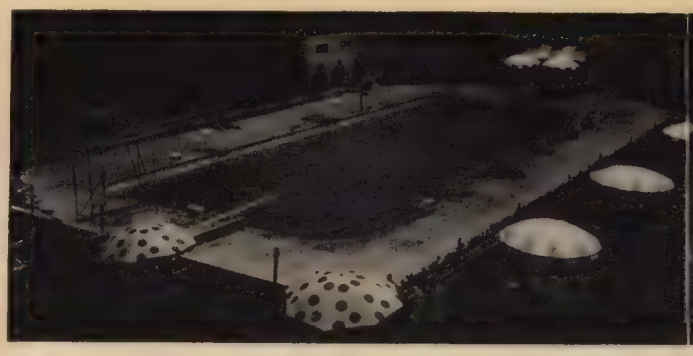
The plans comprised 26 separate and complete drawings involving 17 pages 24"x36" supplying every detail. The specifications comprised 53 pages of 8½x11 single spaced typing and included a 7 page estimate in detail.

We are going to feel very proud of our pool and we feel that it will be a large factor in rounding out a complete and satisfactory recreation program; that the pool will provide many hours of enjoyment for young and old in our community, save lives which are now lost occasionally by swimming in the Hudson River, and finally be an asset to our community in every way, architecturally, economically, educationally, morally and physically.

BINTZ SWIMMING POOL

WESLEY BINTZ
M. S. in E. Registered Civil Engineer
SWIMMING POOL DESIGNS EXCLUSIVELY
LANSING, MICHIGAN

10/1931



Summit, N. J., Country Club Pool.

Paterson, N. J., Pool.

A RESUME OF
Dimensions, Areas, Quantities, Equipment, Conditions, Contracts, and
A COMPARISON OF Two Country Club Pools

ITEM to be compared	SUMMIT Sunken Pool	PATERSON Part "Bintz Pool"	PER CENT Minus Plus	See Note
Pool—Size, Feet	35 x 82.5	50 x 75.	.....	1
—Shape	Rectangular	Ovoid	.....	1
—Area, Sq. Ft.	2,866.	3,062.	6.9	1
—Depths, Ft., 3-5	1,389.	2,160.	55.6	1
—Depths, Ft., 5-Deep or more	1,477.	902.	38.9	1
—Volume, Gal.	139,350.	118,940.	14.6 (17.2)	1
Overall Dimensions, Ft.	99 x 141.5	79 x 109.	Plus	1
Concourse Floor				
—Width, Minimum, Ft.	12.9	14.5	11.2	2
—Area, Sq. Ft.	4,440.	3,753.	15.5	2
Bath Room—Area, Net. Sq. Ft.	2,172.d	1,121.d	48.6	3
—Bldg. Equivalent, Ft.	25 x 92.	25 x 49.	.....	3
—Construction	Wood	Concrete	Plus	3
—Interior Finish	Unfinished	Finished	Plus	3
—Windows	Wood Grills	Steel Sash	Plus	3
Total Floor Area, Sq. Ft.	9,644.	8,040.	16.6 (19.9)	4
—Plot Area, Sq. Ft.	9,284.	6,815.	26.6 (36.3)	4
Equipment			Plus	
Lockers, Steel	164.	150.	8.5	5
Bathers—Toilets a.	2-2.	2-2.	.....	5
—Urinals	2-0.	2-2.	.....	5
—Lavatories	2-2.	2-2.	.....	5
—Showers	2-2.	2-2.	.....	5
Dressing Stalls	e-10.	e-6.	.....	3
Ladders	5.	4.	.....	5
Diving Boards, b.	1-1.	1-1.	.....	5
Children's Wading Pool	No	Yes	Plus	6
Spectators, Provision for	Yes	Yes		
Use of Wood	Bath House	None	Plus	3
Under Water Lights	Yes	Provision For	Plus	
Capacity—Bathers 1:10; 1:30 c.	188.	246.	31.0	7
Total Cost	$29,937.	$18,500.	38.2 (61.8)	8
Built	1939	1938		

a.Men-Women. b.High-Low. c.Accepted rating 1:10 shallow water 3'-5' deep;1:30 deep.d. Includes filter room. At Summit built with Pool, all concrete 15'x24',360 SqFt. Wooden bathhouse by others. e.Benches for men. All footings 3' below all floors.Subdrainage under all floors and behind all walls.

KEY TO NOTES IN LAST COLUMN

1: Note that the Ovoid pool is a 7% larger pool with 55.6% more water of the proper wadable depth. The sunken pool has a beautiful diving pit, but larger, in the opinion of this engineer, than really needed. This larger pit means about 17% more water to recirculate (as indicated under gallons), meaning larger daily operation costs. Note: Less overall dimensions, less land required. Summary: The Ovoid pool is a 10% better arrangement, taking everything into consideration.

2: Part of this area of the sunken pool is merely to connect the wooden bathhouse with the pool and is not as desirable, since more width would be around the pool, as in the Ovoid pool. Conclusion: The extra width of the concourse floor around the Ovoid pool would give us a plus value in this instance.

3: The main point to notice here is that the bathroom on the Ovoid pool is a 100% permanent, finished inside, and with steel window sash; whereas, the bathhouse on the sunken pool, although nearly twice as large, is all wood, no windows, unfinished interior, and subject to rot and deterioration that wooden bathhouses suffer under damp, moist conditions, and no winter heat. It can easily be said that the Ovoid pool has a plus per cent better bathroom area than the sunken pool, although smaller.

4: Although total areas are only one-fifth greater, we find that the sunken pool takes up 36.3% more ground area than the Ovoid pool. This is usually serious, because land space around the clubhouse of a country club for the installation of a pool is never too much and usually too small.

5: A perusal of the equipment figures will indicate very little difference and it was put in more for the sake of record and to indicate just what was included in final costs. Both pools have 8-hour turnover water purification plants. A slight plus in favor of the sunken pool.

6: A Children's Wading Pool is included in the Ovoid pool. No Children's Wading Pool in the sunken pool, although one is contemplated.

7: The capacity of a pool (Note c) is based on the square feet of wadable-swimmable water 3'-5' deep and the area of the deep diving water. Note that the Ovoid pool is 31% more efficient here.

8: Up to this point we might say that the pools equal each other with the Ovoid pool probably having the edge over the sunken pool. However, total costs show up the great difference, the sunken pool with separate bathhouse costing over $11,000.00 more, a matter of 61.8% more.

WHY: Two Reasons: Use of economical BINTZ Pool, a combination pool and bathhouse, Patented, and use of the Ovoid Pool. It's always cheaper. Request other comparisons, pictures, pamphlet, Etc.

EXPLANATION OF POOLS:The Paterson Pool-Preakness Hills C.C.- is a part Bintz-Pool and Bathhouse combined-Ovoid Pool,called "Ovoid Pool" and the Summit Pool - Canoe Brook C.C.- is a conventional rectangular sunken pool with separate wooden bathhouse-By others-called "Sunken Pool" in this discussion.

WESLEY BINTZ
Consulting Engineer, Civil
Swimming Pool Designs Exclusively
BINTZ POOL—PAT. NO. 1,572,463
Lansing, Michigan

BELIEVE THE

TRUTH OR

SUFFER THE

CONSEQUENCES

CLAIM: BINTZ Pool**—a **combination** swimming pool and bathroom built as one coordinated unit, is 25% to 40% CHEAPER in cost and BETTER with 10-12 advantages, and the

OVOID POOL*—a swimming pool **shape**, is 8% to 10% CHEAPER in cost and BETTER with 4-5 advantages, or the

VASOID POOL*—an alternate swimming pool **shape**, is 6% to 8% CHEAPER in cost and BETTER with 3-4 advantages, all

as compared with the conventional rectangular* two-unit sunken pool** and bathhouse**. But, as you superficially read over our provable modest "CLAIMS", do you

BELIEVE THEM? You should, but you probably won't. Why should you when

WHY should BINTZ POOLS be "CHEAPER in cost and BETTER"? That's rubbing it in, isn't it, when you know every commercial statement made about is only x-tenths of y-percent true, if at all. But the

FACTS, by actual comparisons (we have a dozen) between a rectangular sunken pool and bathhouse with a BINTZ POOL PROVE the above "CLAIMS" to be very modest, and more than true. Why? because

"THERE'S A REASON" and it is the entirely different BASIC design that does it. We can-NOT design you a rectangular Sunken Swimming Pool and Bathhouse of **equal size, permanence, and details** any cheaper than anyone else. In fact, since we know the pitfalls to be avoided and the details and good engineering required, it would probably cost you a little more. Of course that would be offset by thirty-five (35) years of practical engineering (since 1916) and swimming pool experience (since 1923) and would be worth it to you. Louisville "changed horses" (BINTZ POOL, under contract at $181,000, canceled, and we designed the Sunken Pool and bathhouse) and for 15% less pay $221,000 (22% more) and when completed for 5% more will pay $318,000 (76% more). "If you knew

SUSIE—Swimming Pools like I know Swimming Pools," you'd shudder at what we see and you get in Plans and Specifications prepared for swimming pools by INexperience. They're God-awful. The lack of good Engineering is absolutely amazing. And don't think that good Architecture, usually not so good, can cover up bad Engineering, either. A swimming pool is strictly an ENGINEERING Job. And others claiming to "know the ropes" doesn't necessarily save you from a "knockout." Right now, a certain town refuses to give us any information about their sunken pool and bathhouse, since to

COMPARE it with a BINTZ POOL only 40 miles away, both pools built same time, same money available, same economic conditions, show that the Bintz Pool owner got about 40% more combined in pool, concourse floor, bathroom, pool and bathroom equipment, up-to-minute details, permanence, modernistic architecture and beauty. There is absolutely no comparison between our bathroom and their bathhouse (How do you compare a barn-like structure with a modern auditorium) as regards size, construction, details, equipment, engineering or architecture. Note: NOT 1% to 2% better, but more than the "25% to 40%" which we modestly claim. An actual and visual and factual (6-page-with pictures—for the asking) comparison, between the single unit BINTZ POOL and the two-unit sunken pool and bathhouse would prove to you what the President of the BINTZ POOL City Park Board said "For $175,000 we got ourselves a $250,000 (43.7% more) swimming pool". And the sunken pool city, besides wasting the public's money atrociously (As compared with the Bintz Pool) lost a dozen advantages (such as—no unsightly fence—can service pipe fittings going thru pool wall—up and out of ground water and frost action—no excavation, etc.) and architectural beauty, which in a house or car would be worth another 10% to 25%. And so,

HONESTLY: When you employ Professional Service, don't let the following dictate your final decision:

1. POLITICS? Good Politics and an architecturally and structurally BETTER pool at less cost are synonymous.

2. VOTES?: Saving money and letting the public know it, will get you a lot more votes.

3. FRIENDSHIP?: A real friend won't ask you to waste the public's Money, or take work he is not qualified to do.

4. DOUBT? You don't believe Bintz. You're wasting the public's money if you don't. At least investigate, refuse to believe wild stories and rumors told to you by others about us and get the FACTS from BINTZ directly.

BELIEVE the TRUTH or PAY the CONSEQUENCES

"CLAIMS" explained in 80-page Pamphlet with Pictures, Detailed Data, etc. upon Request.

WESLEY BINTZ, P. E.

REGISTERED CIVIL ENGINEER

Consulting Engineer, Civil

Swimming Pool Designs and Consultation Exclusively

SINCE 1923

BINTZ POOL, as represented by PAT. NO. 1,572,463

LANSING, MICHIGAN

B.C.E.
M.S. in E.
M. Eng. Soc.

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REGISTERED
CIVIL
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Lansing, Michigan

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M.S. in E.
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COMMISSIONERS

EDWARD VAILE
President

LOUIS FITCHER
Vice-President

ESTHER M. BARTON
JOHN R McDANIEL
L. W. MILLER

Dixon Park District

DIXON, ILLINOIS

OLAF V. REES
Secretary

JAMES R. BALES
Treasurer

JOHN DIXON
Attorney

W. J. BARRY, Jr.
Superintendent City Parks

JOHN JENSEN
Superintendent Lowell Park

Wesley Bintz,
Consulting Engineer, Civil,
301 S. Washington Ave.,
Lansing, Michigan

Dear Mr. Bintz:

We opened our new pool for public use and the reactions from not only bathers, but the people in general has been marvelous.

There is no venture the Park Board has undertaken during the forty four years of its existence that has met with such widespread approval as expressed by the thousands of our citizens who have seen the pool.

Several years ago, I heard you make a talk at a Park Board Convention, about the merits of your Above Ground Pool. At the time, I was very skeptical of your claims and the merits of this type of construction.

After several years of investigation we concluded the Above Ground Pool, is not only more practical but in the long run more economical to maintain.

By the way, we believe our Pool is your Top Job.

Most sincerely yours,

Edward Vaile

Edward Vaile

P. S. Will let you know when Ronald Reagan will be here.

(NOTE: Ronald Reagan dedicated this pool 8/21/50. His reaction: "Nicest pool he ever saw.")

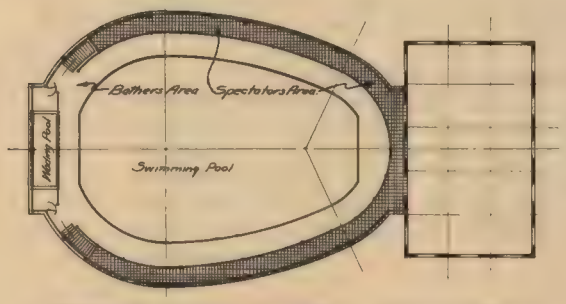
DIXON PARK "BINTZ POOL", 80' x 120' Ovoid, with Extended Front

Preprinted from MUNICIPAL INDEX 1951

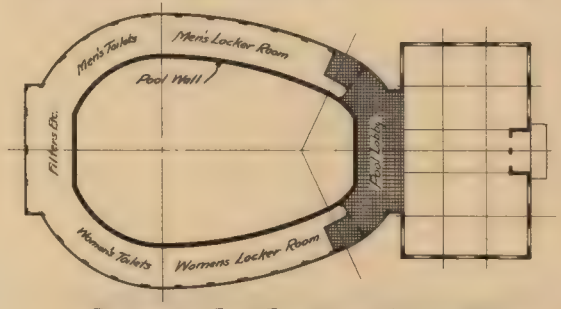
COMBINATION "BINTZ" Swimming Pool and COMMUNITY or MEMORIAL Building

A COMBINATION within a COMBINATION! First, we start out with a "BINTZ POOL", which is a **Combination** Swimming Pool and Bath-house, built as one coordinated unit which not only saves 25-40% in construction costs but has a dozen very distinct advantages which you cannot get with the conventional old-style, two unit, sunken pool and bath-house. See "WHAT, WHY & WHERE is a BINTZ Swimming Pool".

In this particular comparison we will use the Ovoid-shaped Pool (could use a Rectangular Pool), which gives about a 10% larger pool for 10% less money and has three or four advantages as compared with the conventional Rectangular Pool. See "OVOID-RECTANGULAR Comparison".



SWIMMING POOL – SECOND FLOOR PLAN – COMMUNITY BUILDING



BATHROOM – FIRST FLOOR PLAN – COMMUNITY BUILDING

NOW, another **Combination** is a "Memorial or Community Building" and a "BINTZ POOL". See the picture at the head of this page for a Memorial Building in connection with a beautiful Bintz Pool. This Building, with a Beautiful bronze plaque on the second floor, was used to work out a Memorial for Veterans of World War I. This Memorial Building can be increased to any dimensions and become a Community Building.

Now, see sketch, a Community Building and a BINTZ POOL complement each other advantageously and economically. The Community Building, first floor, laid out with rooms for various activities and a stairway leading to the second floor, would tie in directly and immediately with the first floor of the Swimming Pool. The First Floor Plan of Bath-room has a lobby, Men's and Women's locker rooms, toilet rooms for bathers and public, and the filter and control room. In the Pool lobby, x-hatched, will be counters, shelving, office, first-aid Room and other floor space which would have to be provided in the Community Building, if it were not available in the Pool lobby. This layout actually increases the size of the Community Building (28% as shown) and at no extra cost.

On the Second Floor Plan, The community Building with stairway, concession and/or kitchen, lounge, lobby and general assembly floor divided by a sliding partition for several size rooms, ties in directly with the spectators area around the Swimming Pool. In putting on a dance or some other such activity then, the Community Building floor is immediately increased in size by the cross-hatch area on the pool (56% as shown) and at no extra cost.

Now, the Community Building, if built separately, would have to be increased in size to take care of the added space attached to each floor by a "BINTZ POOL" and naturally would increase its cost by a proportionate amount. Obviously, therefore, a Community Building combined with a "BINTZ POOL", is increased in its usefulness and efficiency by as much space as it gains from the Pool, (42% as shown) and at the same time materially reduces the cost.

Our 50-page Swimming Pool Pamphlet, actual photographs, special literature, estimates of cost, and recommendations, is available free upon request.

Swimming Pool, Community and Memorial Building and Complete Park Designs and Consultation Exclusively.

WESLEY BINTZ, B. C. E., M. S. in E., Consulting Engineer, Civil, Lansing, Mich.

Reprinted from 1946 Swimming Pool Data & Reference Annual

DANIEL C. ROGERS
ATTORNEY AT LAW
FAYETTE, MISSOURI

March 1, 1946

Mr. Wesley Bintz,
Consulting Engineer
301½ S. Washington Ave.
Lansing 25, Michigan

Dear Mr. Bintz:

It is a pleasure to respond to your recent inquiry concerning the attitude of the citizens of Fayette on the Bintz type swimming pool which you constructed here in 1936 under a WPA Project when I was mayor of the city.

1 First, the price of this beautiful pool, standing as it does as good as new like an everlasting edifice, always satisfies us thoroughly. The total cost, as you may remember, was only approximately $29,000.00. Of this amount the City furnished $20,000.00, in round figures, and the Federal government furnished $9,000.00 in labor and a small portion of the cost of materials.

2 Secondly, the beauty of our pool is unsurpassable. The decorative patterns in the different shades of the brick walls in the pool itself and the Veterans' memorial never fail to attract the eye of one passing by. The concrete work in the floor and walls of the pool, in the concourse floors for
3 swimmers and spectators, and in the inside and outside railings, remains as fresh, strong and artistic in appearance today as it did when the pool was finished ten years ago, June, 1936.

4 The women's clubs which supplied about $2,200.00 to provide a memorial for Veterans of World War I are proud of their contribution to the pool and the community. The first floor of the memorial is used for the business office, through which all swimmers and visitors pass. An ice cream and confections counter is also maintained. The second floor furnished with chairs and benches is used as a shady place for visitors to rest.

You will recall that Fayette is the home of Central College and is distinctly an enterprising college community. Several hundred college students enjoy the pool in September and during the summer session. College faculty,
5 students, and the home people of Fayette are unanimous in their high admiration of our swimming pool. Visitors from distances of fifty miles patronize our pool and hold picnics in the park. They all compliment us on the beauty and everlasting strength of our Bintz type swimming pool. No one would change for another type!

Very sincerely yours,

Daniel C. Rogers

Daniel C. Rogers

NOTES by BINTZ:
1. Bintz Pool $25,000, Memorial Building $4,000, Total $29,000.
2. Bintz Pools have been and are used as Memorials of all kinds.
3. Bintz Designed Pools proven good for at least fifty years.
4. Bintz Pools and Community Buildings built together complement each other and save about 25 percent of cost of Community Building.
5. Bintz Pools draw from 25-50 miles easily. They're different.

Jacksonville
Florida

JAX ZEZ

January 25, 1949

They write for information from all over the world.

*The Town Clerk,
Municipality of Woolahara,
536 New South Head Road
Edgecliff, N.S.W.

Jax has two pools now. B'lt '28,'39. Latest data for a third is requested.

Dear Sir:

Mr. Robinson, our executive secretary, has referred your letter concerning swimming pools to me for reply.

BINTZ POOLS have a great many other advantages besides those given here. Our literature cites them all for you. Better look them up.

Our pools are built according to a patented design of Wesley Bintz, Swimming Pool Engineer, Lansing, Michigan. We selected this type of pool because we believe it is superior to other types, being more economical to construct, more sanitary, easy to control and beautiful as an edifice. In other words, why dig a hole in the ground and build a separate headhouse when the whole structure can be built above the ground, drained easily, aired completely, washed down with a hose, and easily supervised.

Our 70-page pamphlet has a lot of data.

I am asking Mr. Santa to send you data on his type of pool for your evaluation. We recommend his services without reservations.

A Bintz Pool in Washington sets 100% on piles. Our pools satisfy all conditions, Wet, Dry, Hilly, Level, Rock, Swamp, Etc.

One further question is prompted by your letter. Why build in a swamp, where piling and fill are necessary for a structure of any weight with appropriate assessment? You folks have plenty of land. I didn't know that you suffered from some of our troubles-having undesirable land given or allocated to you for public improvement. Of course communities benefit from having swamps drained or filled, but the cost is considerable.

*Edgecliff wrote Jax after seeing article about their BINTZ POOLS in "RECREATION", saying: "We have a problem in the construction of a swimming pool on a bad swamp area. Why build your pool above ground?" Hallison to Bintz, "This gentleman from 'down under' asks a good one, 'Why build pool above ground when a good slimy swamp is available?'"

Very truly yours,

(signed)
[illegible] L. Hallison
[illegible], of Recreation
City of Jacksonville, Fla.

(1) Mr. Girkins, Director of Parks at Toledo, has contracted for: 8 - Wading Pools, 25' x 50'. Built 1 - Bintz Swimming Pool, 60' x 90' Ovoid, with Community Building, 2-stories high, 44' x 60'. Built 1 - Bintz Swimming Pool, 60' x 90' 1 - Bintz Swimming Pool, 80' x 120' with Special Extended Front.
All Bintz Designed with 26 years of Experience.

(2) Can you do less and properly serve your constituency.

(3) Any Professional man would do the same for his client.

(4) You will never be able to say all this about the old-style two-unit sunken pool & bathhouse.

(5) Veterans deserve such beauty along with economy, and additional functional value.

---

ty Park Commission

SECRETARY-TREAS., W. S. JONES, JR.

CITY OF KENNETT, MISSOURI

Dear Mr. Jones:

You asked me why we adopted this pool. The Common Council and myself looked over a good many pools and we decided that this Bintz pool was the ideal Pool for our city. Its advantages are many fold. You have complete jurisdiction and supervision of the people and children at all times. If anything should go wrong and you need repairs you do not have to go under ground to do this repair....

....the stairs at the left for spectators take you...to the pool...where spectators can watch the swimmers..... We have had our pool open since the 28th of June and it has been used so extensively that we have to run shifts to accommodate the crowds that are taking advantage of our first outdoor pool.

Bintz himself has been 100% cooperative. ..and he has gone out of his way to rectify any situation that would help to improve our situation. In fact we are more than satisfied with this pool

.....

As far as the pool is concerned everybody that has used it, swimmers, beginners, or spectators say it is the best asset to the city that we have had in the last 20 years.

I know in the future we will probably want to build another pool and if we do and I am still here it will be a Bintz pool because I know, after 35 years of experience, that it is the best pool for the money and for the job.

.....

Very truly yours,

(Signed)
William L. Ramsay
Director,
Parks and Recreation.

WLR:ive

PARKS AND RECREATION COMMITTEE
EDWARD JONES, CHAIRMAN
ARTHUR R. LEMKE
WILBUR BRAUER

W. L. RAMSAY
DIRECTOR

PARKS
PINE WOODS PARK
MAYOR'S PARK
GRATWICK PARK
BRAUER PARK
CANAL PARK
PAYNE PARK

City of North Tonawanda, N. Y.

RECREATION AND PARKS

PLAY AREAS
FELTON GILMORE
CHRISTIANA CARRUTHERS
MARTINSVILLE COL. PAYNE
GRATWICK CENTER AVENUE
CRAMER PINE WOODS

FALL AND WINTER ICE RINKS
LINWOOD WHEATFIELD
MARTINSVILLE CHRISTIANA

GYMNASIUMS
N. T. H. SCHOOL COL. PAYNE
MARTINSVILLE GRATWICK
GILMORE

July 22, 1948

(1) Dear Mr. Gerkins:

It's a pleasure to answer your recent letter asking about our new Bintz Swimming Pool just completed in 1948.

In some ways, this is a rather hard letter to write since to say all we would like to say would seem like undue praise and satisfaction, but certainly less would not be fair to the designer of our pool or the pool itself.

(2) As regards Mr. Bintz himself, we made a complete investigation of not only him personally, but also his pool, went and looked at some of his work, and the Council's decision was unanimous in employing Mr. Bintz. Mr. Bintz has more than lived up to our expectations of him; he has done more for us than his contract calls for; he had leaned over backwards to give us expert professional advice; and has been honest with us to a fault.

(3) For instance, the first time we got bids, the bid was almost double of what it should have been. However, the Council was ready to go ahead on that basis, realizing that building costs were high, but on the advice of Mr. Bintz, all bids were rejected. Several months later, the same thing happened. Bids received - very high - Council ready to proceed - Bintz advises rejection of all bids. We advertized for bids the third time and received bids that were reasonably close to what Mr. Bintz thought the pool should be built for. We went ahead on that basis. Mr. Bintz's knowledge of pool costs and economic conditions, and absolutely disregarding his own interests, saved the city a matter of about $55,000. Naturally, one has to feel pretty good about such professional advice and service.

(4) As regards the pool itself, it's a masterpiece - beautiful, an excellent collection of economical arrangements, new layouts and modern details a truly master-pool. Esthetically and architecturally it has no comparison. We put in the very latest layout which called for the wet and dry aisles. We wanted to put in a Special Extended Front, but finances didn't allow. Since the pool and bathhouse are all concrete and brick construction, it's very easy to keep clean and maintain. It's extremely simple in operation. A minimum of people are required to operate same. The pool is 80' x 120' Ovoid.

Investigation shows that it is cheaper to build than the conventional sunken pool and bathhouse by a matter of ¼th to 1/3rd. It has some very obvious advantages; such as sewer 8' shallower, no unsightly fence, possible to service all fixtures going thru pool wall, less excavation,

(4)

up and out of frost action, surface dirt cannot blow into the pool, compact, etc., which advantages are quite obvious, along with many other advantages not so obvious, all of which would warrant any community to pay more for this type of pool. Actually you get it all for much less.

(5) Our pool was built as a Memorial to veterans of World War II. We felt that an ordinary bathhouse would not do justice to our Sons of War who left this area and to those who never came back. On the other hand, the Bintz Pool is not only unique and impressive, but has the requisites of a Memorial in being dignified, very beautiful, a long life, unusual, stately and imposing. In our opinion, whereas an ordinary bathhouse would have practically no value as a Memorial, we feel that our pool has a very, very high Memorial value. Our Veterans have so expressed themselves almost unaminously.

We will be very happy to answer any specific questions which you might have in regard to Mr. Bintz or his professional service, or in regard to our very, very satisfactory Bintz Pool.

Very sincerely yours,

Wm. L. Ramsay
Director, Parks & Recreation
City Hall
North Tonawanda, N. Y.

"THEY SAY"

WHAT---OTHERS---SAY---TO--OTHERS
"BEHIND------OUR------BACKS"
ABOUT----"BINTZ---POOLS"
AND-"BINTZ-SERVICE"

NOTE: The following excerpts from letters to another (not us) were written' by a pool owner, operator, superintendent,or person in charge of a Bintz designed pool, and due to the unusual, satisfied nature of the recommendations, we were shown or given the originals.

BEAUMONT, TEXAS: "It is the THIRD pool we have constructed under his designs. We like the compactness, excellent control over bathers and spectators, and the general economy and efficiency of operation. Our first pool of his design,built in 1926 is in excellent condition."

Article on BEAUMONT POOLS from Parks and Recreation magazine: On describing why they built BINTZ pools.

"The concentration of the Bintz pool and bathhouse structure conserving needed playground space, was a deciding factor."

"The success of this pool, giving perfect control over the spectators and bathers, and producing the adequate revenues to maintain and operate without direct cost to the taxpayers---" and the "-----highly satisfactory experience with the first Bintz pool-----." was the deciding factor in building their second and third BINTZ pools.

"--a very economical structure was necessary. --- The conservation of playground space,--simplicity of operation, --and--the complete control over spectators and bathers----" were the "deciding factors favoring the Bintz design."

"----look up a Bintz structure and it is secure-----." "Less of an eyesore in the landscape----."

"----spectators and bathers come in through one entrance, excellent control is given over crowds,automatically eliminating much of the disorder and"comment from the gallery' which we find at our sunken pool-----." "Supervision is efficient, requiring very few employees to render rapid service, enforce regulations and safeguard the patrons. Cleaning up after operation is facilitated by all construction being of concrete-------." Frank Bertschler, Supt. of Parks, Recreation and Aviation.

SUMMIT, NEW JERSEY: Canoe Brook Country Club. "---the Committee found you a very satisfactory person to deal with and we consider ourselves very fortunate to have been able to obtain your services in the construction of our swimming pool" W. H. Dunn Pres. Canoe Brook Country Club.

"---was emphatic in expressing the opinion that we should do everything possible to help you make contacts for the construction of other pools. The entire committee feel that we owe you a great deal for your splendid cooperation and help in the construction of our pool, and naturally, you know where I stand - 100% for Wes Bintz." Mr. Norman L. Mattice,Manager, Canoe Brook Country Club.

FAYETTE, MO.: "Personally, I think it is the most artistic and most utilitarian swimming pool I have ever seen.---"There are many advantages to it, all of which Mr. Bintz will truthfully explain to you."

"----I would not over rate him (Mr. Bintz) regardless of how well I should speak of him to you.---,----we turned the job over to him------(and he did the job)--competently and honestly."

"-----convinced me------was cheaper than we could build a sunken pool of the same size. If I were doing the thing over again I would pay substantially more for a well-built Bintz pool than for a sunken pool of the same size. It is a work of architecture that is beautiful." Daniel C. Rogers, Former Mayor

BANGOR, PENNA.: "----by adopting the Bintz type of construction, a saving of at least 50% could be effected. As a mining Engineer of long experience I unhesitatingly state that,------there is no other design of pool which can be built with so small an amount of money and yet give the satisfaction that this one does.

"I highly recommend this type of pool construction------"

"-----I cannot too highly praise his (Mr. Bintz) honesty, integrity and method of fair dealing."

"By using this form of construction (Bintz pool) we estimated we were saving the Borough of Bangor well on to$18,000. over the cost of a sunken pool and independent bathhouse. You can appreciate that in a town of approximately 6,000 persons this is a large amount of money." Mr. Arthur Stoddard, Former Mayor.

"------by using the Bintz' patent we feel that we have saved almost $20,000.00,-------."

"I would further state that Mr. Bintz has been extremely fair with me in his dealings and I hold his engineering ability in high regard." Mr. Allen Frederick, Chief Burgess.

"------am entirely familiar with-----our Bintz swimming pool and I cannot praise too highly this form of pool construction. It has really created a saving which has made it possible for us to have sufficient money to complete our project."

"Mr. Bintz has always been courteous and cooperative in every respect-----and the Mayor and every member of the Council are entirely satisfied with our Bintz type of pool, which is----a very beautiful structure." Mr. Clarence Bruch, President, Town Council.

MOUNT PLEASANT, MICH.: "----we have had fine success with our Bintz pool and have the greatest regard for Mr. Bintz' ability as an engineer and pool designer. ----his ability is beyond question."

1939 Pool Report: "Pool is working fine and we ran 1,188* through the other day. No settlement or cracks." *(capacity represented as 1100). Mr. W. K. Willman, City Manager.

WELLSBORO, PENNA.: "Having been in charge of construction of the pool, I have learned from experience that Mr. Bintz did not overstate the virtues of his design. I firmly believe that this pool or any Bintz pool can be constructed for at least 25%less than the conventional type pool of similar capacity."

"Much can be said of the many novel features of a Bintz pool, particularly from an economical operating standpoint.----

You may have no fear of Mr. Bintz's ability as an engineer and it is a recognized fact that he is an authority in the swimming pool field."

"Perhaps the best recommendation that I could give him is the fact that if we are building another pool it would be a Bintz pool."

In giving a talk before a Business Men's Association in a neighboring borough my subject was "The Advantages of a Bintz Pool'." And for another City: "------I am preparing a detailed letter of recommendation for the "Bintz Pool'." "A representative of the cement company says ----'-----when cities-----become familiar with the existence of such a type pool as yours (A Bintz Pool). the conventional type pool will be a thing of the past.'"

"-----W. P. A. officials of this area point with pride to the WellsboroSwimming pool as an example of an excellent project."

"My personal contacts with Mr. Bintz have been highly satisfactory. -----of good reputation, a capable engineer and a specialist in the swimming pool field of engineering." Mr. J. R. Crosetto, City Engineer.

R E S U M E: Here is a Resume' of what "They Say", said several years ago. Naturally, one writer couldn't say or think of all the reasons. But here are a few of the reasons why they like Bintz Pools and/or BintzService.

1.	Saving in cost of Bintz pool Times Said-	13
2.	More Beautiful " " -	11
3.	More compact " " -	5
4.	Easier to control -	8
5.	Drawing attraction to City -	2
6.	Sanitary operation -	4
7.	Less land required -	2
8.	Advertising value to raised pool -	1
9.	Up away from surface dirt -	1
10.	Better drainage -	2
11.	Structurally and/or mechanically perfect -	3

with seven saying they would never build anything but a Bintz Pool; two that they have two, Bintz Pools;three that they have a sunken pool but satisfied with pool and service; 29 that their pool has been entirely satisfactory; one that it was the finest pool he had seen in 450 he had inspected: another that it provides space for spectators: another contemplated third Bintz Pool as soon as money is appropriated (It's built.); and 32 speaking highly of his ability as an engineer. This is a total of 119 commendations in 38 letters from 34 pools (1932), a formidable array for you to think about. Many others added since.

WESLEY BINTZ
B.C.E., M.S.inE., Registered Engineer in various states.
SWIMMING POOL DESIGNS AND CONSULTATION
LANSING, MICHIGAN

"Does This Answer YOUR QUESTION?"

1. WHAT IS A BINTZ SWIMMING POOL?
A combination swimming pool, promenade or concourse floor and bathhouse built in one coordinated unit.

2. WHAT DOES THE PATENT COVER?
The use of the pool wall and the concourse floor around thepool as two sides of the bathroom area.

3. IS THE "BINTZ POOL" STILL IN THE EXPERIMENTAL STAGE?
No. Over 90 (1949) pools havebeen built, the first dating back to 1919.

4. IS A ONE-UNIT COMBINATION "BINTZ POOL AND BATHROOM" REALLY CHEAPER TO BUILD THAN A TWO-UNIT COMMON TYPE SUNKEN POOL AND BATHHOUSE?
Yes. At least 25% to 40% cheaper. Actual comparisons of cost on record show Sunken Pools to cost from 44% to 71% more. These comparisons are available in our pamphlet, or separate for the asking.

5. WHY IS A "BINTZ POOL" CHEAPER TO BUILD?
Because two sides of the pool become two sides of the bathroom area. When the pool proper is completed, the bathroom is 60% complete (one side & roof). There are other smaller savings, namely: no unsightly wire fence around pool, sewers about eight feet shallower, no excavation for pool proper, less subdrainage, etc.,

6. WHY ISN'T A FENCE REQUIRED OR WHY IS A "BINTZ POOL" MORE BEAUTIFUL?
Because of the low, ornate, eight-foot outside architectural wall and railing which takes the place of and eliminates the usual unsightly wire fence.

7. WHY CAN YOU USE SHALLOWER SEWERS FROM YOUR MAIN POOL OUTLET?
Because thepool proper sets about 8 feet higher than in a Sunken Pool.

8. WHY DO YOU REQUIRE "FILL" IN PLACE OF "EXCAVATION" ON LEVEL GROUND?
Because the pool is built on top of the ground. Fill is required to bring the pool bottom up to proper grade. On a location with about 4% grade, no fill is required and excavation is about 20%of amount required for a Sunken Pool.

9. IS THERE AN ACTUAL SAVING OFGROUND SPACE?
Yes. We save all the space ordinarily required by the bathhouse. In a "Bintz Pool", the bathroom area is under the concourse floor around the pool. On a given plot of ground we can erect practically a 50% bigger "BINTZ POOL" than aSunken Pool and bathhouse.

10. DO YOU CONSTRUCT POOLS AS WELL AS DESIGN THEM?
No. We handlethe professional end only. (We have actually built three.)

11. WHAT DOES YOUR SERVICE INCLUDE?
Preparation of complete Plans and Specifications for structure and equipment tobuild and equip a complete operative pool, and general supervision during construction and equipping of said pool.

12. WHO BUILDS YOUR SWIMMING POOLS?
Local contractors, local money, local labor, local materials, and usually by competitive bidding.

13. DO YOU DESIGN SUNKEN POOLS?
Yes. Our prettiest and smallest one and our biggest and most expensive one are Sunken Pools. We have designed and have had built 15 Sunken Pools besides all of our own "BINTZ POOLS". And all our Sunken Pools show increased cost over our "BINTZ POOLS" of equal size and permanence.

14. WHY IS POOL WALL EASIER TO DESIGN AND CHEAPER TO BUILD & MAINTAIN?
Because itis designed as a simple vertical beam and not as a retaining wall. Also there is no reversal of stress when pool is full or empty as exists with a Sunken Pool wall, eliminating double reinforcing. No ground behind walls to cause dangerous frost action.

15. UNDER WHAT PROFESSIONAL CLASSIFICATION DOES SWIMMING POOL DESIGN FALL?
Structural Engineering, a branch of Civil Engineering.

16. WHAT ARE YOUR QUALIFICATIONS AND EXPERIENCE AS A STRUCTURAL ENGINEER?
Graduatefrom University of Michigan with Degrees of Bachelor of Civil Engineering (B.C.E.) and Master of Science in Engineering (M.S. in E.) 1918; two years instructor surveying, Univ. of Mich.; member American Park Society and National Recreation Association; member*American Association for Hygiene & Baths; member,*American Society Civil Engineers; Chief of surveying parties on cityproperty, farms, drains, city plats, and office work; Supt. of construction steel buildings permanent camp, U. of M.; Resident Engineer on surveys, direction contractor, computations and reports 2 miles gravel boulevard; five years in responsible charge structural engineering, design, supervision, and City Engineer, work consisting of eight concrete arch and beam bridges, ranging in cost from $52,000 to$250,000, numerous steel bridges, three story concrete storage barn, 2 story concrete garage, 4 sewerage ejector plants, 4½ miles of pavement, 5 miles of 6" to 84" sewers, actual construction as aContractor ofnumerous structures including three swimming pools, city market, garbage disposal plant, and other structures too numerous to mention. And since 1923 specializing inthe design and supervision of about 90-ty pools, Sunken & Bintz Pools, for municipalities, Amusement Parks, Country Clubs, Tourist Hotels, Commercial Enterprises, private estates, pools for white people and colored, land developments, memorial pools, etc., all totaling well over $5,000,000 worthof Structural Engineering. *to 1936

17. IN HOWMANY STATES HAVE YOUR POOLS BEEN BUILT? (1949)
In about twenty-seven (27) States.

18. HAVE ANY CITIES EVER BUILT THE SECOND "BINTZ POOL"? "THIRD POOL"?
Yes. Several in each case.

19. HOW ARE THE SPECTATORS TAKEN CARE OF?
By space provided for them on the concourse floor around the pool and access to said space is by stairways in front of bathroom area for their special use. They don't have to look through an unsightly wire fence as with a Sunken Pool.

20. WHAT WOULD HAPPEN IFTHE POOL WALL DEVELOPED A CRACK?
Nothing. The water would run to the floor drain in the bathroom and flow away. You would know the crack was there, and could easily fix it. With a Sunken Pool you wouldn't know it, the ground would become water soaked, and serious frost action would result. But it hasn't happened yet; over 90-ty pools to our credit andnot a single cracked pool wall yet, to our knowledge, is a record of which to be proud. We know how. It's our business.

21. HOW DO YOU PREVENT FROST ACTION AND CRACKS IN THE POOL FLOOR AND LOCKER ROOM FLOOR?
By heavy reinforcement, subdrainage with a complete land drain and sewer tile drainage system andall lay ontop of porous cinder or gravel subbase.

22. WHY DO YOU SOMETIMES USE THE SCUM GUTTER IN THE RECIRCULATION SCHEME?
The Scum Gutter is a joke if you dont. Unless the water is kept slightly above the level ofthe Scum Gutter, the surface scum does not get away. Andnearly the whole pool ofwater will go over the Scum Gutter in a day if water is kept slightly above surface of gutter edge. If not connected up with recirculation system, this water would go to the sewer, a prohibitive cost. A Bintz Pool Development.

23. WHAT DO YOU DO IN THE WINTER TO PREVENT FREEZING AND FROST ACTION?
Nothing. Empty pool and all sanitary traps, and forget it. The design is otherwise sufficient toprevent any further precautions.

24. HOW IS THE WATER IN A"BINTZ POOL" KEPT IN A SANITARY CONDITION?
The water in a"Bintz Pool"is kept sanitary by continuous recirculation, sterilization, and filtration, using the same system as your City water supply. The City has to bring your water UP to adrinking water standard, and we merely have to KEEP it there.

25. HOWABOUT VENTILATION AND DAMPNESS OF BATHROOM?
Perfect ventilation on account of complete bank ofwindows around entire bath room giving wonderful air circulation and preventing any more dampness than usually exists in a bath room. In fact, on account of no wood in bath room there is less dampness, mold and smell than usual. Also wonderful light exists in bath room, another highly desirous advantage.

26. CAN ANY PART OF THE POOL OR BATH ROOM BURN, ROT OR DECAY?
No. One side of bath room is concrete pool wall, ceiling is concrete concourse floor, floor is concrete, and outside wall is of any type construction desired such as concrete, tile plastered, brick or other noncombustible materials, steel window sash, etc., a bath room 100% permanent, except doors and frames. Sometimes to save cost, the outside curtain wall is built of wood, always between permanent columns. The bath room is still over 80% non-combustible. Permanent curtain wall construction costs very little more than wood and paint.

27. CAN ANYBODY BUILD A"BINTZ PATENTED POOL"? (1942)
No. Only through use of our service or obtaining license from us. When people have infringed on our patent and we have found them out, they have either settled or are now under court action for infringement.

28. ARE YOU A REGISTERED ENGINEER?
Yes. In Michigan and various other states where we have practiced.

WESLEY BINTZ
B.C.E. M.S.E.E.
CONSULTING ENGINEER (EMB)
WIMMING POOLS EXCLUSIVELY
LANSING, MICHIGAN

ASK US ANOTHER

Foreign Service

FEBRUARY, 1947

Build One As a Practical Living Memorial To Honor Those Who Gave Their Lives In Battle

POOLS AS MEMORIALS

By WESLEY BINTZ
Civil Engineer

MAN'S desire to attain earthly immortality for himself or for others he wishes to commemorate has produced, through the ages, many types of monuments and memorials.

Few men achieve either the prominence to justify this desire or the means with which to do it. It therefore becomes a community problem and is most often solved by organized groups taking action to erect a monument of some kind to causes or individuals deemed sufficiently noteworthy.

Memorials After First World War

IN THE five or six years after the close of the first world war, cities, towns, and villages in the United States spent many millions of dollars for statues, monuments and cenotaphs to honor the memory of those who fell in that conflict.

These monuments were of various types. Some were beautiful and dignified, many were neither. Some were located in parks and public squares where settings of trees and skillful landscaping enhanced the desired effect; others were placed at street intersections or busy corners where they either went unnoticed or became dangerous traffic hazards. In architectural and artistic treatment they ranged from the sublime to the ridiculous. Without doubt, every one of these memorials was conceived and executed in a spirit of deepest sincerity, and money for their construction was donated or appropriated most generously by municipal bodies and civic organizations.

Since the day a chipped old rock was enclosed in an iron fence with a "Don't Touch" sign, great strides have been taken in the type and design of memorials. Sentiment after World War I was changing rapidly in this respect, as in many others. Increased social activity demanded more housing for itself. Increased participation in sports required more room for the contestants. Increased taxes demanded more value received for the taxpayer's dollar spent. What was more logical than that communities desirous of commemorating some event or person turned to a memorial that would give them something for their money that could serve combined purposes, and *without detracting from the primary objective of being a memorial.*

Stately monuments have a very high memorial value to start but drop off in a year or so to a casual glance. On the other hand, functional structures do not start out with such a high memorial value, but maintain a high value all of the years that the project functions

The community house, playfield, or public park have been predominant as the objects that serve the most people. Highways and similar utilitarian projects have been used for the same purpose, but these give less of the sense of belonging to the people who erect them than does a city park or a playground which can be used by generations of children to come. These children may not feel the direct effect of the happening that brought about their memorial, but they will become more worthwhile citizens because of it.

After World War II

Now that the second world war has ended and is fast becoming history, the same desire to "do something" to honor the memory of the men and women of this conflict is being experienced.

But in the same way that our government and the army and navy in the second world war avoided the mistakes of the first one, so should we in planning war memorials seek to profit by the unfortunate examples of World War I monuments.

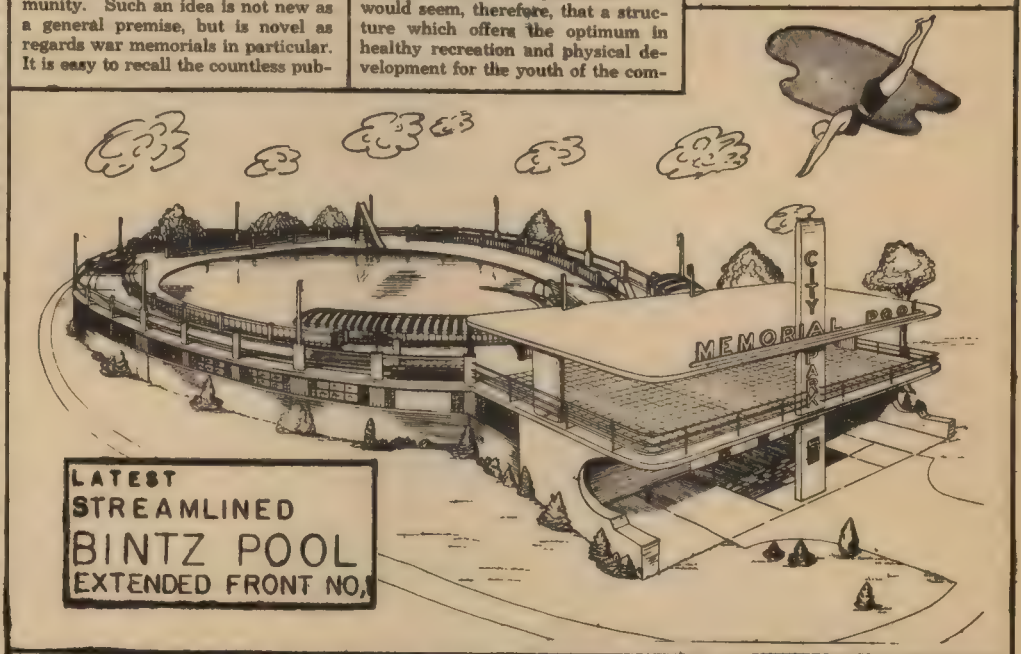
A new concept of memorials has been evolved, in which it is held that the memorial which serves its purpose best is one in which there is an intrinsic practical value to the community. Such an idea is not new as a general premise, but is novel as regards war memorials in particular. It is easy to recall the countless public buildings, parks, hospitals, libraries, church and school structures which have been given for the use of the public in the name of some respected or honored citizen. Such memorial structures enrich the cultural life of the community and serve a much more worthwhile purpose than a marble shaft or an heroic equestrian statue covered with bird droppings.

It would seem that of memorial structures and buildings which cater to our cultural and mental needs we have, in most places, an ample supply. But what memorials do we have that serve our physical and recreational needs? And, as memorials serving the latter, what would be more fitting than sport centers, such as stadia, community buildings, band shells, and swimming pools?

There are very few communities in the United States that do not need better or more adequate swimming facilities than they now have. In some areas children never learn to swim because of dangerous or polluted natural bodies of water. Yet we are told by health authorities that few sports are as ideally suited to over-all physical development as swimming. Some high schools, in fact, consider swimming so important as to make the ability to swim a requirement for graduation. It would seem, therefore, that a structure which offers the optimum in healthy recreation and physical development for the youth of the community would be a most appropriate memorial for those who served in World War II.

At first glance, it might seem that a swimming pool could hardly be designed in such a way as to be a memorial structure. However, swimming pools do not have to look like flooded holes in the ground. In fact, it is nearly always more economical to build them above ground. The very unique engineering and functional requirements of swimming pools make for a structure that is "different," and with appropriate external treatment, they can be made as dignified, as artistic and as satisfying esthetically as the most expensive and useless pile of marble or granite.

The importance of recreational facilities of all kinds cannot be too highly stressed. It is a recognized fact that proper recreational facilities immediately lessen the incidence of juvenile delinquency. And when you figure that it costs $800 per year to keep a girl in a reformatory, $750 per year for a boy, and $35 per year on probation, a few dollars for recreation is money well spent. In the life of many readers, the work week has dropped from 60 to 54, to 48, to 44, to 40 hours per week, and now we are even talking about 35. No more time is spent in eating and sleeping, which means that almost all of this extra time goes into recreational activities of one form or another.



Those familiar with recreational facilities know that a community which has a swimming pool can plan that, on a maximum day, 7% to 10% of the population would use such facilities, whereas not more than 1% to 2% will play any other type of game.

The cost of providing recreational facilities can be figured in various ways; one method is what is known as "man-use" cost. To explain: a tennis court properly built with back-stops will cost about $2,000. Four people can use this court. That means $500 each for a place for a person to play. Golf courses, due to extensive land costs and club houses, run from $1,000 to $3,000 per man-use cost. A shuffle board court costing about $100 can provide a place for four to play with a man-use cost of $25.

A swimming pool will run from about $125 to $[illegible] per man-use, depending on type and kind of pool, equipment,

Swimming Pool, Community and Memorial Building and Complete Park Designs and Consultation Exclusively.

WESLEY BINTZ, B. C. E., M. S. in E., Consulting Engineer, Civil, Lansing, Mich.

The EXCHANGITE

JUNE, 1947

Swimming Pools — War Memorials of Inspiration and Use

By Wesley Bintz

The author of this article is a member of the Exchange Club of Lansing (Mich.), having joined the Club in 1922. He is a nationally known designer of swimming pools.

construction, and other details. Considering the fact that from ten to twenty times as many persons indulge in this sport as in any other, this substantial but relatively small man-use cost of a swimming pool is highly justified.

In many localities the swimming pool structure can be combined advantageously with a recreation building. In this way, the necessary facilities of the pool, such as showers, toilet rooms, locker rooms and check rooms have year-round usefulness in the recreation building. The pool may be enclosed to provide swimming in all seasons, but this generally has not been found desirable, as the cost of a year-round pool is much greater, and the urge to swim is usually not very great except in the summer. Enclosed pools are generally intended for controlled or supervised swimming, such as instruction in swimming and diving. An outdoor pool, besides providing the healthful sport of swimming and diving, also provides a convenient means to soak up a lot of sunshine and fresh air in as near a natural state as possible.

The presence of large natural bodies of water seems not to detract from the desirability of, or necessity for, an artificial pool. Unfortunately, lakes and rivers near all our large cities and many of our small ones are so contaminated with sewage or industrial wastes as to make swimming in them out of the question. Water in swimming pools, on the other hand, can be as clean, and frequently much cleaner, than the municipal water supply. Lakes and rivers and even the ocean are full of water hazards such as currents, tides, undertows, slime-covered rocks, old piling, and reckless speedboat drivers. None of these dangers is present in artificial pools; the water is always transparent, and an alert guard can always spot a person in trouble before it is too late.

Competitive aquatic meets can be held to better advantage in pools than in natural waters. A most important advantage, from the viewpoint of parents of small children, is that swimming, diving, water games, and just plain horseplay can be closely supervised at all times. In some municipally owned pools, recreation directors stage elaborate water pageants and aquatic dramatic events, school children, of course, being the principal participants. Such activities help in meeting the problem of juvenile delinquency.

Types of Swimming Pools

There are, of course, all kinds, shapes, and sizes of swimming pools available for use as memorials. There is the conventional sunken pool and bathhouse which has a history of about 2,000 years, and in which the bathhouse must more or less represent the memorial. The pool itself lies in the ground, is full of water, and is purely functional.

This writer has developed what is known as a Bintz swimming pool, which is a combination swimming pool and bathhouse. It is possible to combine this two-level swimming pool with a community building. This increases materially the functional use of the pool and bathhouse and gives added facilities for towns which do not have such a building for the use of the young and the old for their various activities. Whereas the swimming pool is used only during seasonable weather, the community building is used the year round for offices, clubrooms, parties, and meetings of all kinds. Costs are also materially reduced by this combination.

A well-designed pool can be combined with a community building having memorial features and clubrooms, a lounge, and a dancing or band platform.

Popularity and Costs

As we mentioned earlier, there are many cities and towns badly in need of a swimming pool. Those same communities are firm in their intention to erect a memorial to their war dead. Like the widow who spends all her husband's insurance money on a fine monument while her children are unprovided for, many of those communities will first build a memorial and then think about a swimming pool. Why not consider a memorial swimming pool, planned and dedicated to our war dead, and at the same time fulfilling a crying need for the present and future generations—perhaps for the children of those same heroes?

The reader may say, "Yes, that is all very well, and I agree that a swimming pool would be an appropriate War Memorial in our town, but can we afford it? Don't swimming pools cost a lot of money?"

It is a widely held and erroneous supposition that swimming pools are luxuries to be indulged in only by wealthy communities and individuals. As a matter of fact, swimming pools cost less, per person using the pool, than almost any other public recreational facility.

Pool costs can be stated in various ways. Considering the best in structure and equipment, on a per capita basis, they will range from $5 to $10 for large communities, up to $15 for very small communities. On a square foot basis, pool costs will range from $10 to $25 depending on the type of pool, mode of construction, equipment used and so on. The above range of cost-figures is for any kind of pool. Applying a population yardstick, a community of 3,000 can build a Bintz pool for about $35,000; 8,000 population, — $65,000; 25,000 population, — $125,000; and so on. For a sunken pool and bathhouse of equal size, permanence, and details, add at least one-third to these costs. For minimum conditions, deduct one-third: Community building costs will be from $5 to $20 per square foot of floor surface. These costs are not for the traditional sunken pool with separate bathhouse, but for a structure combining the two, usually erected on the surface of the ground, which is much less expensive. These figures also contemplate adequate and experienced engineering services in design, without which costs would greatly exceed the above.

Above costs 1946 Basis
Ask for Consolidated cost sheet for all sizes, and conditions.

Suggestion for Financing

Financing of swimming pools is varied. It ranges all the way from bond issues to subscription and gifts. One of the best ways is for communities to ascertain from a proper source the size and cost of the swimming pool that should be built, raise about a quarter to a third of that by subscription, and go to the City Council for a bond issue on the balance. That type of set-up almost never fails. Enough interest should be generated in the subscription campaign to put over the bond issue.

War memorials spring from the heart and try to satisfy that need or urge to give and repay the one who has given so unstintingly of himself. Making that object functional, as well as aesthetic, obviously increases the value of the gift. The future of our country lies in the hands of our boys and girls, many of whom are children of our war heroes. Let's encourage recreation which has helped us to bear the problems of war; will help us to solve the problems of today; and will help the children of our war heroes to solve their political, economic, social and cultural problems in the future. It hardly need be stated here that for the greatest satisfaction one should use a competent and experienced professional engineer for assistance in the planning of such a memorial.

The American City
By Wesley Bintz
August 1947

BEACH & POOL

Outdoor VS Indoor Pools

by WESLEY BINTZ

A FEW CONCEPTS about indoor and outdoor pools will help to clarify the fact that both have their place, but that neither takes the place of the other. Although the indoor pool and the outdoor pool have the same name, they serve entirely different purposes. Here are a few pertinent facts regarding same:

1. The indoor pool is used almost exclusively for controlled bathing, whereas the outdoor pools is used almost exclusively for uncontrolled bathing.

2. The indoor pool should be built in connection with a gymnasium or high school. We'll even go further and say that any High School built today, or already built, without any swimming pool in connection with it is out of date.

3. The Outdoor swimming pool is almost always built as a recreational feature and it is recommended that it be built in connection with an extensive play area for adults and children. The public toilets are available for their use, and often baseball and football and other strenuous games are included in the play area—the bathrooms are immediately available for that use before and after the swimming season.

4. The indoor pool would cost practically double of an equivalent outdoor pool because of super-structure, heating system, and the best ventilation system ever installed. The ventilation system is necessary to cut down the excessive condensation which you get in indoor pools. To combat this very bad feature of indoor pools, sometimes double outside walls are built to cut down condensation.

5. What would be an exceptionally large indoor pool would be a ridiculously small outdoor pool. In other words, as example we might recommend a 100' x 165' Ovoid Pool; but for an indoor pool, we certainly wouldn't recommend a pool over 75' long. If built about 40' wide, it would have less than ¼th of the area of the outdoor pool. To attempt to compromise these sizes, would, on account of operating costs, lead to a serious situation.

6. Experience has shown that you would have more bathers in the three summer months in an outdoor swimming pool than you would have in the total 9 months in an indoor pool.

7. Your operating costs on the indoor pool due to heating, ventilation, etc., would easily be 50% more per month than on an outdoor pool.

8. Outdoor pools load to capacity on a hot, humid day. If toward evening a cool rain ensues, not even enough people show up after supper to use the pool to pay to keep it open. And still, the temperature would be 75° or so during that so-called cool evening. If people don't want to go swimming when it's 75° warm, they would have even a less desire when it's down to freezing.

9. Unless your indoor pool is run full days every day, you'll have a large investment for only part time use. But in any event, you must have a complete personnel available during open hours. In other words, if you only have the pool open two night a week, you have a tremendous investment for a very short period of use. On the other hand, if you keep it open all the time, then you have large operating and personnel costs.

10. Taking into consideration the number of people using the pool, cost of your project, cost of operating, etc., it can easily be shown where it will cost you 50 times as much to provide swimming for one person in a swimming pool in the winter time as it does to provide for one person in the summer time. That is entirely too much in what we might call operating, man-use cost.

There are, of course, other minor reasons for not attempting to combine the two. They do not serve the same purpose; their use is entirely different; and all in all, we can't think of anything where the name is the same but where in actual practice the two articles are so far apart.

Pop, What makes you so bright? asks sonny.
"Experience, my boy, Experience" answers the man ofthe hour.
Where did you get the Experience?
"From Good Judgment"
And where did you get the Good Judgment?
"Bad Judgment, my boy, Bad Judgment".

On your Swimming Pool "Bad Judgment" will hound you for the rest of your LIFE.
Make it "Good Judgment" with a "BINTZ POOL"

WESLEY BINTZ
CONSULTING ENGINEER, CIVIL
LANSING 25, MICHIGAN. 301½ S. WASHINGTON AVE.

INQUIRIES FOR BINTZ POOLS COME FROM ALL OVER THE WORLD

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DAWE and WILLIS
Architects and Structural Engineers
Carey's Buildings, GLOUCESTER ST.
'PHONE A 5219
W. BINTZ Esq.
CHRISTCHURCH
April, 1947.

MUNICIPALITÉ
PRÉSIDENCE
SMYRNE, LE 17 Juin 1947
Monsieur,
J'ai l'honneur de vous prier de vouloir bien m'envoyer votre catalogue avec une liste des prix.
H. Aziz
Mayor of Smyrne

CITY OF PIETERMARITZBURG
CITY ENGINEER'S OFFICE
P.O. Box 205
Pietermaritzburg, 20th November 1947
I beg to acknowledge receipt of your communication of the 21/10/47 having reference to construction of a swimming pool.
D. H. DARVILL
City Engineer

KARLWILHELM JUST
REGISTR. DIPL. ING. ARCHITEKT
Dresden-A, Germany
Grosser Garten
Okt.1st, 1928
Mr. W. Bintz
Lansing, Mich.

CABLE ANDERMIL
M. P. ANDERSON
MANZANA DE GOMEZ 360.
HAVANA, CUBA
TEL. M-6041

Rua Dois Dezembro, 26
Rio de Janeiro, Brazil
26 July 1946
Modern Swimming Pool Co.
36 Hudson Street
New Rochelle

C. E. Chambers
Commissioner of Parks
Parks Department
Toronto July 24th, 1947.
Address all correspondence to the Commissioner of Parks

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CARTE POSTALE
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NEDERLAND
20 VIII 1946

Mr. Wesley Bintz B.C.E.
Consulting Engineer
LANSING, MICH.
U.S.A.

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Mathenesserlaan 389b
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Rotterdam, Holland

County Borough of Southampton
PUBLIC BATHS DEPARTMENT
WESTERN ESPLANADE
SOUTHAMPTON
TEM/EC

Architect
O'BURHARRIFF, LOUGH
LOUGHGALL.
CO. ARMAGH, IRELAND.
Co. Armagh. Ireland
12.12.46.
I would like to see American literature on swimming pools.
Colin Johnston Robb,

CORREOS-M
TARJETA POS
Wesley Bintz
Lansing
Michigan

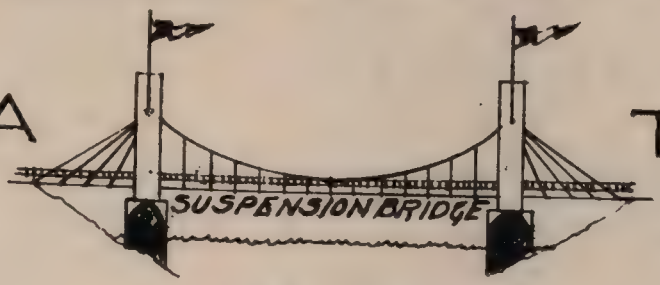
PHONES J1145 J1254
J. Forsyth
AND SWORN VALUATORS
236 PENSHURST STREET
(NEXT GLAN WILLIAM ST.)
WILLOUGHBY

COMMONWEALTH OF AUSTRALIA.
TELEPHONE No. 5374.
DEPARTMENT OF HEALTH.
51 SPRING STREET.
IN REPLY PLEASE QUOTE
Melbourne,

Cor. St. Kilda Rd. and Dorcas St.
MELBOURNE
PHONE M 1032
Head Office: 225 Latrobe St.
MELBOURNE
PHONES F1151 AND F5020
Cor. Mair and Armstrong Sts.
BALLARAT
PHONE: BALLARAT 1329
Beaurepaire Tyre Service Pty. Ltd.
BALLOON AND CORD TYRE SPECIALISTS
TYRE SALESMEN AND REPAIRERS

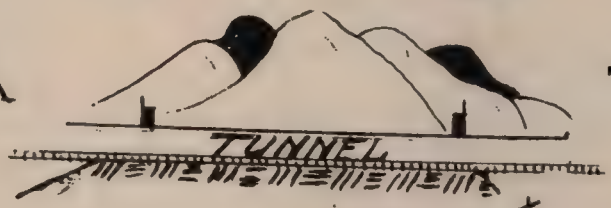
DEMAND DIFFERENT STRUCTURES DIFFERENT SPECIALIZATIONS

GOT A



TO DESIGN,
EMPLOY ENGINEERING
BRIDGE SPECIALISTS,
NOT US

GOT A

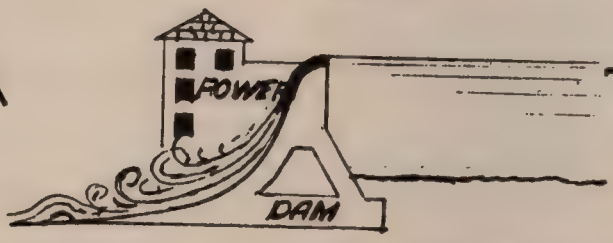


TO BORE THRU,
SECURE ENGINEERING
TUNNEL TECHNIQUE,
NOT US

GOT A

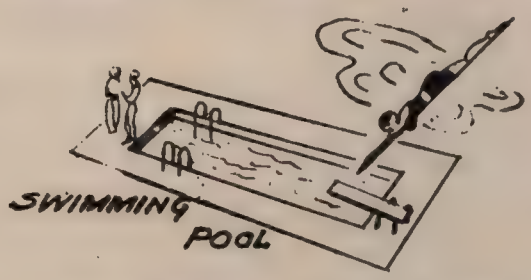
TO COMPOSE,
INVITE ARCHITECTURAL
EDIFICIAL SKILL,
NOT US

GOT A



TO PLAN,
CALL ENGINEERING
POWER DAM EXPERTS,
NOT US

GOT A



TO DEVELOP,
DEMAND ENGINEERING
SWIM POOL EXPERIENCE,
THAT'S US

SINCE 1923 — 25 YEARS OF EXCLUSIVE POOL EXPERIENCE

Featuring the: **"BINTZ POOL," 20%-35% cheaper, 12-15 Advantages,***
(as represented by Patent No. 1,572,463)
"OVOID POOL," 10%-15% cheaper, 4-5 Advantages,*
"VASOID POOL," 8%-10% cheaper, 3-4 Advantages,*
*as compared with conventional rectangular sunken pool and bathhouse.
"ANY KIND POOL," 33 Years Engineering Experience

Also Indoor-Outdoor Pools, Park Structures, Community Buildings, and Allied Structures. 1918-1923, 1942-1944 (War II): $20,000,000 of practical Engineering (Civil) Experience.

Registered Civil Engineer
Swimming Pool Designs Exclusively
SINCE 1923.

WESLEY BINTZ
Consulting Engineer, Civil.
Lansing, Michigan **1951**

Reprinted from SWIMMING POOL DATA & REFERENCE ANNUAL, 1951

"IT ~~PAYS~~ COSTS TO BE IGNORANT JUST LIKE WE (WERE)"

CLASS OF SERVICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable symbol above or preceding the address.

WESTERN UNION

JOSEPH L. EGAN
PRESIDENT

1220

SYMBOLS

DL = Day Letter
NL = Night Letter
LC = Deferred Cable
NLT = Cable Night Letter
Ship Radiogram

The filing time shown in the date line on telegrams and day letters is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

DEA029 DA044 1949 APR 27 AM 4 19

D.EPA083 NL PD=YD XXXXXXX ARIZ 26=
WESLEY BINTZ=
CONSULTING ENGR CIVIL LANSING MICH=

COUNCILMAN OF XXXXXXX LET CONTRACT LAST SPRING FOR SUNKEN SWIMMING POOL SPECIFICATIONS CALLED FOR XXXX SKUM GUTTER THIS WINTER POOL WAS KEPT EMPTY AND ALL XXXX SURFACE IS NOW POPPING OFF CONTRACTOR CLAIMS IT IS FROM FREEZING AND THAT NO XXXX COMPANY WILL GUARANTEE AGAINST FREEZING WE ARE OF THE OPINION HE USED INFERIOR XXXX WILL YOU BE KIND ENOUGH TO ADVISE ME AS TO THE KIND OF XXXX GUTTERING HE SHOULD HAVE USED AND ITS NAME=

G M GARY ALDERMAN..

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

THEIR Mistake: "THEY THOT ANYONE COULD DESIGN THEM A SWIMMING POOL." How wrong: There is no such thing as cheap inexperienced Professional Service. A dead man, or a lost legal case, or a swimming pool that goes wrong in one year, or two, or three, is never cheap.

Friendship, Personality, entertainment, local votes, fancy talk, diplomacy, dinners, drinks, etc., will never make up for inexperience. It's been tried many, many times, and always has been found wanting.

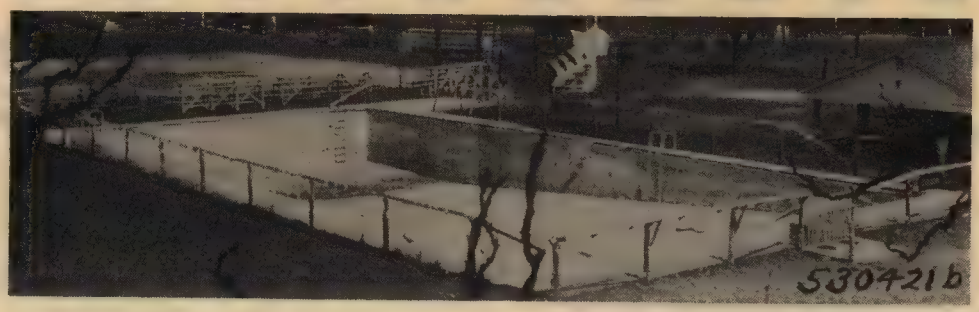
OUR EXPERIENCE, (Swimming Pool Designs and Consultation exclusively, Since 1923) pays its way. You'll have that swimming pool the rest of your life. Better be sure you are right. Investigation will pay big dividends.

WESLEY BINTZ
Consulting Engineer, Civil
Swimming Pool Designs Exclusively
BINTZ POOL—PAT. NO. 1,572,463
Lansing, Michigan

MS. in E., B.C.E., REGISTERED CIVIL ENGINEER

1. We'll do OUR OWN

E N G I N E E R I N G

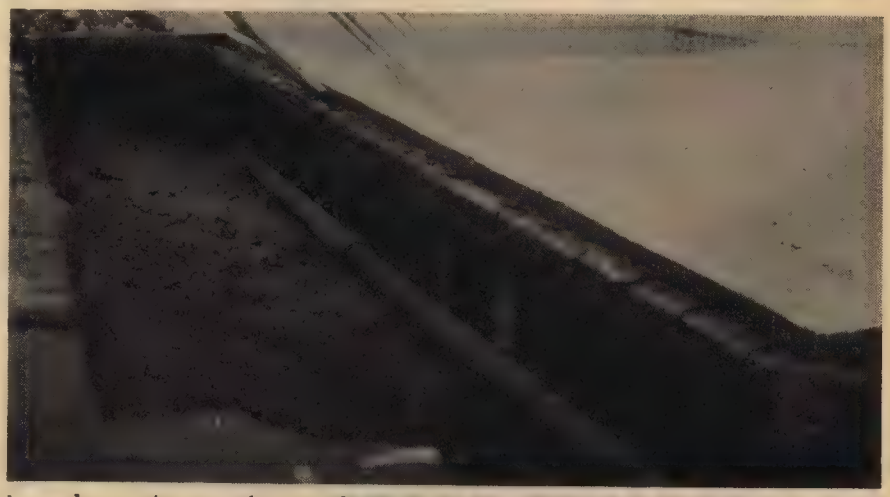


And so, with a pile of old iron, free lumber and contributed labor, all laudable, a small community built a swimming pool about 12-15 years ago. Besides very bad details and wrong water depths—one year's use and it can't hold water. Condemned by State Board of Health, walks settle, gutter breaks up, walls and floors crackup, and all for a few dollars saved in Engineering. Worst of all, repeated efforts in the last few years to get a new pool can t hurdle the black eye of the old pool, a living Memorial to ..... **NO ENGINEERING**

2. We'll save a few percent on CHEAP

E N G I N E E R I N G

And so, five years or so later, another Community pays for their folly, 5-10 times the amount they think they saved in cheap fees, with expensive repairs, remodeling, and upkeep. To the experienced eye the picture to the right shows no less than six serious engineering blunders. On top of that, on original construction cost, they lost twice the money they thot they saved in cheap fees over proper Engineering fees, by expensive and poor construction details, and by letting the Owner solve his own special problem. A false saving of a few percent for sound Engineering doesn't pay for...**CHEAP ENGINEERING**



3. **NOTE:** We say Engineering. Altho some architecture may be required in the bathhouse, first, last and all the time, a swimming pool always requires practical, experienced, structural and ..... **SOUND ENGINEERING**

4. **REMEMBER:** Your Swimming Pool will be no better than the plans and Specifications from which it is built—Your Plans and Specifications will be no better than the experience of the man who prepares them—A swimming pool is no detail but details make or break your swimming pool. And that takes, Not Personality, Not Friendship, Not Votes, Not Entertainment, Not Gifts, Not Calculated Calumny—BUT Experience, Ability and .....**PRACTICAL ENGINEERING**

5. **WESLEY BINTZ, P.E.,** Swimming Pool Designs & Consultation Exclusively 301 S Washington Ave., Lansing, Mich...**PROFESSIONAL ENGINEER**

INCOME AND EXPENSE DATA FOR BINTZ DE

ECT \ TOWN	Cleveland, Ohio	New Orleans, Louisiana	Indianapolis, a. Indiana	Johnson City, New York	Lebanon, Pa.	Newburgh, New York	Dallas, Texas	Beaumont, a. Texas	Bellwood, a. Illinois	Fort Dodge, Iowa	Lansing, Mich.	Rutland, Vermont	Troy, New York
L DATA													
Size	130'x240'	150'x225'	130'x200'	130'x200'	100'x165'	100'x165'	100'x150'	80'x120'	80'x180'	80'x120'	80'x120'	80'x120'	80'x120'
Type	Bintz,Rect.	Twin	Bintz,Ovoid	Bintz,Ovoid	Bintz,Ovoid	Bintz,Ovoid	Bintz,Ovoid	Bintz,Ovoid	Bintz,Ovoid	Bintz,Rect.	Bintz,Ovoid	Bintz,Ovoid	Bintz,Ovoi
Capacity-Gallons	891,225		631,000	726,000	480,000	449,000	433,000	294,600	294,600	359,000	294,600	256,000	294,600
Capacity-Bathers, Daily	7,680	8,800	6,000	3,000	3,600	3,600	3,300	2,100	2,100	2,200	2,000	2,100	2,100
RATION													
Dates, From - To	6/22-9/2/46	5/1-9/3/46	6/15-9/2/46	5/30-9/1/46	5/30-9/2/46	6/27-8/28/46	5/11-9/2/46	6/1-9/2/46	6/22-8/15/46	6/7-8/30/46	6/17-8/31/46	6/24-8/24/46	7/1-8/31/4
Total Days Operated	73		80	90	92	58	116	94	45	85	75	49	62
Hours - Morning, From --To	9:00-11:45	8:00-		-	a.9:00-11:00	10:00-12:00	8:00-	-	-	Red Cross Only	10:00-12:00	9:00-12:00	10:00-12:0
- Afternoon, " "	12:00- 6:00	-		1:00- 6:00	12:30-	1:00- 5:30	-	3:00-	1:00-	12:00- 6:00	2:00- 5:00	1:00- 5:00	1:30- 5:3
- Evening, " "	6:00- 8:30	-10:00		6:00- 9:00	- 9:00	7:00- 9:30	-11:00	- 9:45	-10:00	6:00- 8:00	7:00- 9:00	7:00- 9:00	6:30-10:0
ATHER													
Days, Rainy - Bright	4 -		31-23	15-30	10-77					12-	7-65	27-35	4-
Cold - Warm	9 - 60		25-55	15-30	18-40						25-47	25-37	30-23
Weather, Coldest day °F	64°		58°		58°		49°				65°	60°	
Warmest day °F	94°		86°				105°				85°	90°	
TTENDANCE, Season, No. of													
Spectators													
Bathers, Men	7,748			70,000	509 / 11,722	2,490	7,262 / 15,214		11,088		12,756 / 3,733	1,008	1,534
" , Women	5,165												
" , Children	18,079				27,480	29,375	22,078		5,375		21,848	12,943	18,667
Total Bathers	30,992		14,676	70,000	39,202	31,865	37,292	27,631	16,463	16,766	25,581	13,951	20,201
Bathers, Maximum day	2,241		1,018	2,000	1,499		1,202			855	1,392	740	1,381
Bathers, Minimum day	46			5	12		(Rain) 0			3	2	15	10
RCES for													
Spectators												a.	
Bathers, Men	10	.25 & .05 30	(AM Free	(Tax .03 20	b.(. 12	24	10	25	40	Free	35 10	Adult (AM15	1
" , Women	10	.25 & .05 30	(PM 20	(	(30		35	25	40		35 10	(PM25	1
" , Children	10	.15 & .03 18	(Eve. 30	(a.	(30	24	35	25	40		20	Child. (AM05	1
Suits, Towels, Caps	a.	15&25, 10, 50			(c. 12	a. 12	a. 09	12	b. .12& 24		Free all times	b. (PM10	
					.25, --, --		.25,.10,--				---, .10, --		--, .05,
AL INCOME													
Spectators							690 85						
Bathers, Men	774 80						5,324 90		4,435 20		385 81	221 15	153 4
" , Women	516 50												
" , Children	1,895 60						3,193 39		1,001 40			1,172 60	1,866 7
Total, Spec.&Bathers	3,186 90		3,431 20		6,391 12		9,209 14	4,974 55	5,436 60	3,933 80	385 81	1,393 75	2,020 1
Suits, Towels, Caps							2,114 70						5 7
Concessions							250 00			1,517 48		(Less tax	
Special Events												261 27)	
Miscellaneous Sales							70 00						
TOTAL	3,186 90		3,431 20	3,784 50		3,420 20	11,394 34	4,974 55	5,436 60	3,933 80	385 81	1,132 48	2,025 8
ROLL													
Manager	1 493 33					b. /Week	/Mo.		c.				
Guards	9 2,065 46			4 140 00		45 00	1 187 50	1 b. 345 00	/Mo. 125 00	Mo. 125 00	1 a. 762 50	475 00	1 b. 400 0
Operator	6 1,798 68					28 00	5 125 00	2 483 00		Hr. 40	3 1,224 00	1,015 50	4 640 0
Orderlies	1 272 17						1 150 00					350 00	
Counter	2 407 62			1 35 00		20 00	7 75 00	1 241 50					3 450 0
Cashier	2 466 41			1 35 00			3 100 00	1 241 50			1 340 80	85 50	
Police						22 00	2 130 00	1 172 50		Mo. 90 00		85 50	2 300 0
TOTAL	5,503 62			210 00		360 00	/yr7,303 43	1 276 00 / 1,759 50			2,327 30	290 35 / 2,301 85	4 500 0 / c. 2,290 0
RATION COST													
Payroll	5,503 62			1,314 49			7,303 43	1,759 50		Tax 612 05 / 1,995 41	2,327 30	2,301 85	2,290 0
Sterilization	768 00			205 10			6,183 15	200 00		215 87	103 75	344 72	195 6
Power	200 00			178 56				375 00		318 75	371 26	131 29	542 4
Lighting	800 00										21 33		
Water	Free											Tel. 15 08	
Laundry	Free			144 56	d.			150 00		29 36			36 2
Costs, Breakage, Repairs	1,500 00			b. 458 51				400 00		780 16	475 33	409 10	200 0
Supplies & Miscellaneous	1,000 00			977 78		(Budget)		542 00		261 95	29 37	168 49	900 0
TOTAL	9,771 62			3,279 00		5,875 00	13,486 58	3,426 50		4,213 55	3,228 94	3,370 53	4,164 3
UMM'													
Total Income	3,186 90		3,431 20	3,784 50		3,420 20	11,394 34	4,974 55	5,436 60	3,933 80	385 81	1,132 48	2,027 9
Total Operating Cost	9,771 62			3,279 00		5,875 00	13,486.58	3,426 50		4,213 55	3,228 94	3,370 53	4,164 3
Net Income	-5,594 92			505 50		-2,454 80	-2,092 24	1,548 05		-279 75	-2,843 13	-2,238 05	-2,136 4
Cost Structure	155,562 00	240,000 00	85,000 00	90,000 00	70,000 00	45,000 00	63,000 00	36,000 00	95,000 00	35,000 00	35,000 00	33,000 00	46,000 0
ERAL NOTES:	a. Free in Morning.		a. Rhodius Park, One of two Pools by Bintz.	a. Under 12 Free 1-5 PM. b. Depreciation.	a. Playground and Red Cross Activities. b. Includes 20% Tax. c. Free to Children under 6. d. Laundry: Suits .03 Towels .03	a. Children 16 Yrs. or less, free two mornings per week. b. 16 workers, full & part time.	a. 20¢ on week-days only for minors 12-17. Free to Children under 12 M-F 9:00-10:00 A.M. Laundry: Suits .25 Towels .10	a. Magnolia Park, One of three Pools by Bintz. b. Mgr. $115 Guards, Locker Rm at $80.50 Cashiers $57.50, Watchman-$92.00	a. Includes Community Bldg. 50x80 b. 12¢-Children under 12; 24¢-Children 12-18; Free to Children Friday 9-12 A.M. c. Manager is paid for entire year. Average pay for all employees is 75¢ to 90¢ per hr.		a. Manager & Operator. $46.20/wk. Guards $35 per week.	a. Free for playground groups in morning. b. Season tickets: Adults-3.60 Child.-2.40 Family-6.00	a. Free to children every morning except Sun. b. Swimming Director. c. Pool Supt and labor paid by Park Dept.

Figures given as submitted
hough they may not agree.
Admission fees include tax, if required.
Municipal pools are not run for profit. Charges
e usually cover only operating costs. As Newburgh says, "Pool is
ducted for service to public, not as a revenue producer".
"Structure Cost" is actual contract at time of construction, and not
t as sometimes given by owner, which may include such contributing costs
land, long service lines, landscaping, miscellaneous repairs, etc.
This survey conducted by and tabulated by BINTZ. DO NOT copy or reprint
"(" Top figure includes all bracketed. (without accrediting BINTZ.

BINTZ DESIGNED SWIMMING POOLS — 1946

Dodge, wa	Lansing, Mich.	Rutland, Vermont	Troy, New York	Jacksonville, Florida a.	Wheaton, Illinois	Beaumont, a. Texas	Canton, Illinois	Wadsworth, Ohio	Jacksonville, a. Florida	Fayette, a. Missouri	Grand Rapids, a. Mich	New M'r't'vl, W. Va.	Beaumont, a. Texas	Rochester, New York
x120' ,Rect. ,000 ,200	60'x120' Bintz,Ovoid 294,600 2,000	80'x120' Bintz,Ovoid 256,000 2,100	80'x120' Bintz,Ovoid 294,600 2,100	75'x120' Bintz,Ovoid 294,600 2,100	75'x120' Bintz,Rect. 300,000 2,200	70'x105'' Bintz,Ovoid 231,225 1,500	70'x105' Bintz,Ovoid 231,225 1,500	70'x105' Bintz,Ovoid 231,225 1,500	45'x105' Bintz,Rect. 195,000 1,100	60'x90' Bintz,Ovoid 152,000 1,100	60'x90' Bintz,Ovoid 173,508 1,100	60'x90' Bintz,Ovoid 173,508 1,100	45'x90' Bintz,Rect. 171,000 950	50'x75' Sunken,Ovoid 171,000 950
/30/46 5 ossOnly - 6:00 - 8:00	6/17-8/31/46 75 10:00-12:00 2:00- 5:00 7:00- 9:00	6/24-8/24/46 49 9:00-12:00 1:00- 5:00 7:00- 9:00	7/1-8/31/46 62 10:00-12:00 1:30- 5:30 6:30-10:00	6/1-9/2/46 94 10:00-12:00 1:30- 5:30 6:30-10:00	6/10-8/24/46 67 a. - 2:00- -10:00	6/1-9/2/46 94 - 3:00- - 9:45	5/30-8/3/46 66 - 2:00- -10:00	6/1-8/31/46	6/1-9/2/46 94 10:00-12:00 1:30- 5:30 6:30-10:00	6/1-9/1/46 - 2:00- -10:00	6/17-8/31/46 66 10:00-12:00 1:30- 5:30 6:00- 8:00	5/30-9/2/46 96 10:00-12:00 1:30- - 8:30	6/1-9/2/46 94 - 3:00- - 9:45	
-	7-65 28-47 65° 85°	27-35 25-37 60° 90°	4- 30-23	49-74 -94 76° 93°	5- 25-37 60° 104°				49-74 -94 76° 93°			40-56 40-56		
766 855 3	12,756 3,733 21,848 25,581 1,392 2	1,008 12,943 17,951 740 15	1,534 18,667 20,201 1,381 10	17,980 23,209 11,558 34,767 826 40	9,260 8,585 17,845 846 6	18,502	7,716 14,934 22,650 912 7		11,012 14,967 7,425 22,392 680 40	5,000 3,000 2,000 4,000 9,000	11,834 19,655 19,655 707 9	3,558 4,788 a. 18,727 546 3	16,618	This is a Country Club
90 35 35 80	10 10 Free all time ---, .10, --	a. Adult (AM 15 (PM 25 Child. (AM 05 (PM 10 b.	10 10 a. --, .05, --	10 10 10 25	(Coupon (Books & (Passes	25 25 12	(2,700 60 (2,986 80 a.		10 10 10 25	40 40 25 .25,.10, 10	b.	35 35 15 b. --,.05, --	20 20 10	Pool
	(385 81	(221 15	(153 40		c. c. bc.		(2,700 60 (2,986 80			1,200 00 800 00 1,000 00				
933 80	385 81	1,172 60 1,393 75 (Less tax 261 27)	1,866 70 2,020 10 5 70			3,456 84	5,687 40 253 95 86 10 318 55			3,000 00 155 00		3,149 90	b. 459 40	
517 48														
933 80	385 81	1,132 48	2,025 80		4,580 40	3,456 84	6,346 00	3,554 40		3,115 00		3,149 90	459 40	
125 00 40	1 a. 762 50 3 1,224 00	475 00 1,015 50 350 00	1 b. 400 00 4 640 00 3 450 00		1 360 00 4 720 00 1,016 57 1,225 00	1 310 50 2 483 00 1 241 50	600 00			500 00 320 00 400 00 240 00		/Mo. 165. 506 00 120. 375 00 75. 230 00 40. 130 00	1 c. 405 00 1 179 40 1 251 85	
90 00	1 340 80	85 50 85 50 290 35	2 300 00 4 500 00			1 241 50 1 172 50 1 276 00						25. 125 00 40. 125 00	1 121 44	
	2,327 30	2,301 85	c. 2,290 00		2,321 57	1,725 00	600 00	4,302 39		1,460 00	1,441 70	1,491 00	957 69	2,715 27
512 05 495 41 15 87 18 75	2,327 30 103 75 371 26 21 33	2,301 85 344 72 (131 29 Fol. 15 08	2,290 00 195 68 542 46		2,321 57 274 21 (231 02 399 51	1,725 00 150 00 (442 00	Tax 684 58 1,511 19 (246 08 325 60	(* 4,302 39 (* (120 04 909 00		1,460 00 40 00 60 00 82 00 150 00		1,491 00 101 07 133 55	957 69 85 00 (200 00	2,715 27
29 36 780 16 261 95 213 55	475 33 29 37 3,228 94	36 22 409 10 168 49 3,370 53	200 00 900 00 4,164 36		631 74 819 40 4,777 45	75 00 300 00 284 00 2,976 00	573 33 1,035 41 4,376 39	(* 1,273 00 (* 6,604 43		30 00 50 00 60 00 1,930 00		426 88 2,152 50	125 00 30 00 1,397 69	501 90 930 10 258 23 4,405 50
933 80 213 55 279 75 000 00	385 81 3,228 94 -2,843 13 35,000 00	1,132 48 3,370 53 -2,238 05 33,000 00	2,027 95 4,164 36 -2,136 41 46,000 00	48,000 00	4,818 06 4,777 45 40 61 38,000 00	3,456 84 2,976 00 480 84 35,000 00	6,346 00 4,976 39 1,369 61 40,000 00	3,554 40 6,604 43 b. -3,050 03 25,000 00	31,000 00	3,000 00 1,930 00 1,070 00 28,000 00	For Notes - - See - - Below. 25,0000 00	3,149 90 2,152 50 997 40 "BINTZ POOL" - PAT. NO. 1,572,463 25,000 00	459 40 1,397 69 - 938 29 8,600 00	4,405 50 25,000 00
ier -18; iday for e ees r.	a.Manager & Operator. $46.20/wk. Guards $35 per week.	a. Free for playground groups in morning. b. Season tickets: Adults-3.60 Child.-2.40 Family-6.00	a. Free to children every morning except Sun. b. Swimming Director. c. Pool Supt and labor paid by Park Dept.	a. Springfield Park. One of two pools by Bintz.	a. Closed on Monday. b. 116 free swims. c. Income: Admissions- 2,287.80 Coupon books 684.00 Passes Adults739.20 Child.869.40	A. Alice Keith Park. One of three pools by B.	a. Suits $253.95 Towels 86.10		a. Lackawanna Park. One of two Pools by B.	a. Includes Memorial Building 30'x40'.				

Grand Rapids: a.Three pools by Bintz--all alike. Data on each is essentially the same. High data given. b:Checking valuables 3d-55:50; New Martinsville: Figures approximate. August very cold. d. Plus Season tickets. b. Free every A.M. except Sunday; Beaumont: a.Liberia Park (colored) One of three pools by Bintz; b.Charged admission only part of season; d. Also acts as park caretaker.

INCOME & EXPENSE DATA-1946

BINTZ SWIMMING POOL

DESIGN & PLANS BY

WESLEY BINTZ, CIVIL ENGINEER

SWIMMING POOL DESIGNS . LANSING, MICHIGAN

SCALE: — INCH EQUALS — FOOT

F130

NATIONAL SURVEY

CHRIS. LANGE, President.
341 Bellwood Avenue.
Phone Bellwood 6880

MEMORIAL PARK DISTRICT

BELLWOOD, ILLINOIS
Telephone Bellwood 6880

Mr. V. K. Brown
Supt. Playgrounds & Sports
South Park Commissioners
Chicago, Illinois

NOTE: This original letter and report obtained thru the courtesy of Mr. Brown.

Dear Mr. Brown:

This is to acknowledge receipt of your letter of November 18, 1931 in answer to our letter asking for pool information, and to tell you how much we appreciate your courtesy in giving us what information you did.

It might interest you to know that we wrote 134 letters to 101 cities in 46 states and including Washington, D. C., and received 92 answers. We tried to make this Survey as complete as we possibly could since it was vitally important, in view of our large contemplated $150,000.00 pool expenditures, that we determine three important things:

a. Most important type of pool.

b. Most modern pool details or ideas.

c. Engineer or Architect most qualified to handle our project.

The inclosed data is a partial resume' of the entire data which we received. It was very interesting. A complete report is being prepared and is available for the asking. Questions regarding same will be gladly answered. We appreciate your courtesy in writing us as you did. Should we be able to help you in any way, we will be very glad to do so.

Sincerely yours,

Chris Lange

Chris Lange, Pres.
Memorial Park District

CL/r

P. S. The accompanying report also gives you the data and results of the questionaire sent to 25 Engineers, Architects or Firms.

CHRIS. LANGE, President.
341 Bellwood Avenue.
Phone Bellwood 6880

MEMORIAL PARK DISTRICT

BELLWOOD, ILLINOIS
Telephone Bellwood 6880

To Whom It May Concern:

This National Survey, in order to determine some very important factors pertaining to our proposed outdoor swimming pools, was conducted the latter part of 1931.

It was conducted by writing Park Superintendents, whose names were taken out of the American Institute of Park Executives 1931 Year Book; to Superintendents of Recreation, whose names appeared in the Year Book Number of Recreation, 1931; and to various publications who could have any interest in swimming pools.

We conducted this National Survey in order to find out some very important things, or what seemed important to us, looking toward a total expenditure of probably $150,000 in several swimming pools. We wanted to know:

a. What the various Park and Recreation Superintendents and others thought as to the particular type and kind of pool we should build;

b. If they had any particular ideas as regards to what we should do or what we should not do; and

c. If there is any one man who is better qualified than any other to handle this work for us in detail.

In order to ascertain this data, we wrote 59 Park Superintendents and received 45 answers. We wrote 63 letters to Recreation Superintendents and received 36 answers. We also wrote letters to 12 Publications and received 11 replies. This was a total of 134 letters with a total of 92 replies from which we attempted to determine answers to the above questions.

In answer to the type of pool we should build, we obtained very little information. Some recommended one type and some recommended another. The various types of pools recommended were the rectangular pool; the circular pool with shallow depth around the outside edge and deep in the middle; and the elevated pool. One point, however, was outstanding in this matter. Nine answers specifically stated that the matter should be left more or less to the Engineer or Architect whom we should employ.

We obtained more information but probably not as much as we thought we would get, in replies to things which we should or should not do. Here are a few of them: That the water in the swimming pool should be from 3' to 9' deep; white tank is the best; 8-hour recirculation in the pool; 60% to 90% wadable; avoid firms who are agents for pool equipment; most pools too large; one admitted that many mistakes are made by not employing a competent Engineer - they hired a local one; drainage important; 2' water is waste - too deep for kiddies and not deep enough for grown-ups; avoid firms who offer free service; omit curb on edge of pool; with many referring to other Park or Recreation Superintendents for further information.

The information most desired, most received, and most important, was whom was the best man to employ. We had 68 different firms or individuals recommended. Of this amount, only 15 had more than one recommendation, the rest being some local Engineer, or Architect, or Firm, but it was not hard to determine the man best known on swimming pools because this man's name was mentioned more times than a total of the next six mentioned.

Still, popularity doesn't indicate ability, so we sent out a questionaire to 25 Engineers, Architects or Firms who had two or more recommendations and a few who were otherwise exceptionally well-spoken of, in which we attempted to get the following information:

a. Theoretical or professional qualifications.
b. Practical experience outside of pool work.
c. Pool experience.

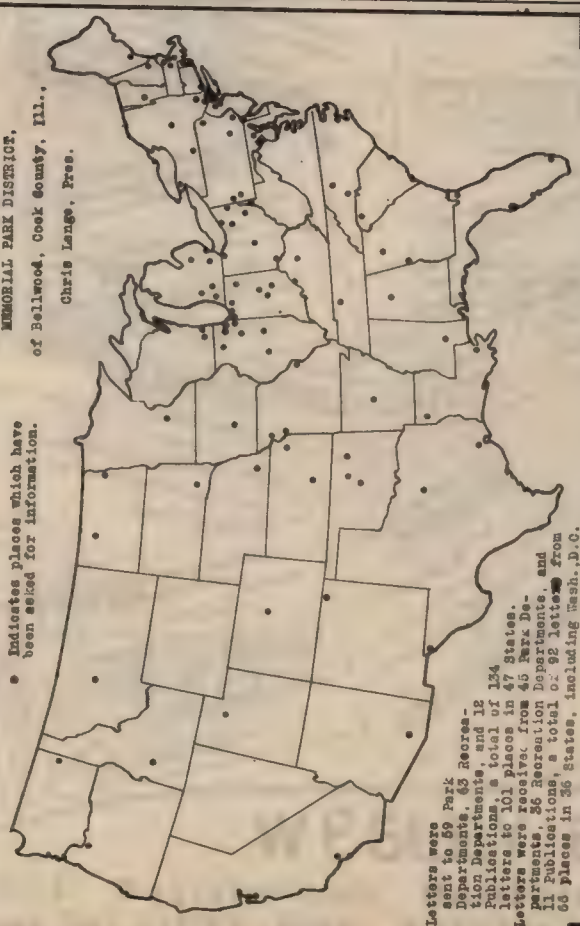
We received replies from 24 Engineers, Architects or Firms, which data was tabulated. There were practically only 12 who qualified in the tabulations since the others gave no data except a general letter, which usually indicated between the lines that they had no pool experience, but otherwise were highly competent.

Of the 10 or 12 who more or less qualified because of the fact that they specialized in one way or another on pools, we picked a man who had excellent technical training and better than any other; worked on municipal structures previous to his pool work which was comparable to swimming pools; was one of two parties who do pool work exclusively; was registered in his own state and 3 others; has spent 10 years in pool design; had more actual pools to his credit than 5 of his nearest competitors, with a total cost of nearly as much as all the rest of them put together; was the only one who had actually built (3) pools as a contractor thereby giving him practical experience along this line; had practiced in more states than all the rest of them put together; was not an agent for any pool equipment; and submitted more actual pool information that the total of all the rest.

After deciding upon the Engineer whom we should employ as best fitted to handle our pool work, we still were not satisfied and determined to write to each of the pools which this party had engineered. We wrote to 34 different places and received 24 replies the first time, a wonderful response. On the supposition that the rest might not be satisfied we wrote subsequent letters indicating that their ideas might be worth more to us than the others. To this we received 9 replies. This was a 97% response and every letter a recommendation.

The accompanying blue print shows a dot for every town to which we wrote in order to obtain the above information. This Survey has been very illuminating and the Memorial Park District of Cook County, Illinois feels that they have obtained some very, very important information. The most important of all is, that there are only two or three individuals or firms in the United States who are competent to handle swimming pool engineering, and the man we picked of the entire quorum of Engineers and Architects is probably better fitted through professional training, practical experience, and pool experience than all the rest put together. Upon data submitted, and assuming that we were conducting this Survey for no other reason than to obtain the best information, we wouldn't even have a second, third or fourth choice as to the Engineer, Architect, or Firm whom we should employ. We employed Mr. Wesley Bintz, Consulting Engineer, of Lansing, Michigan.

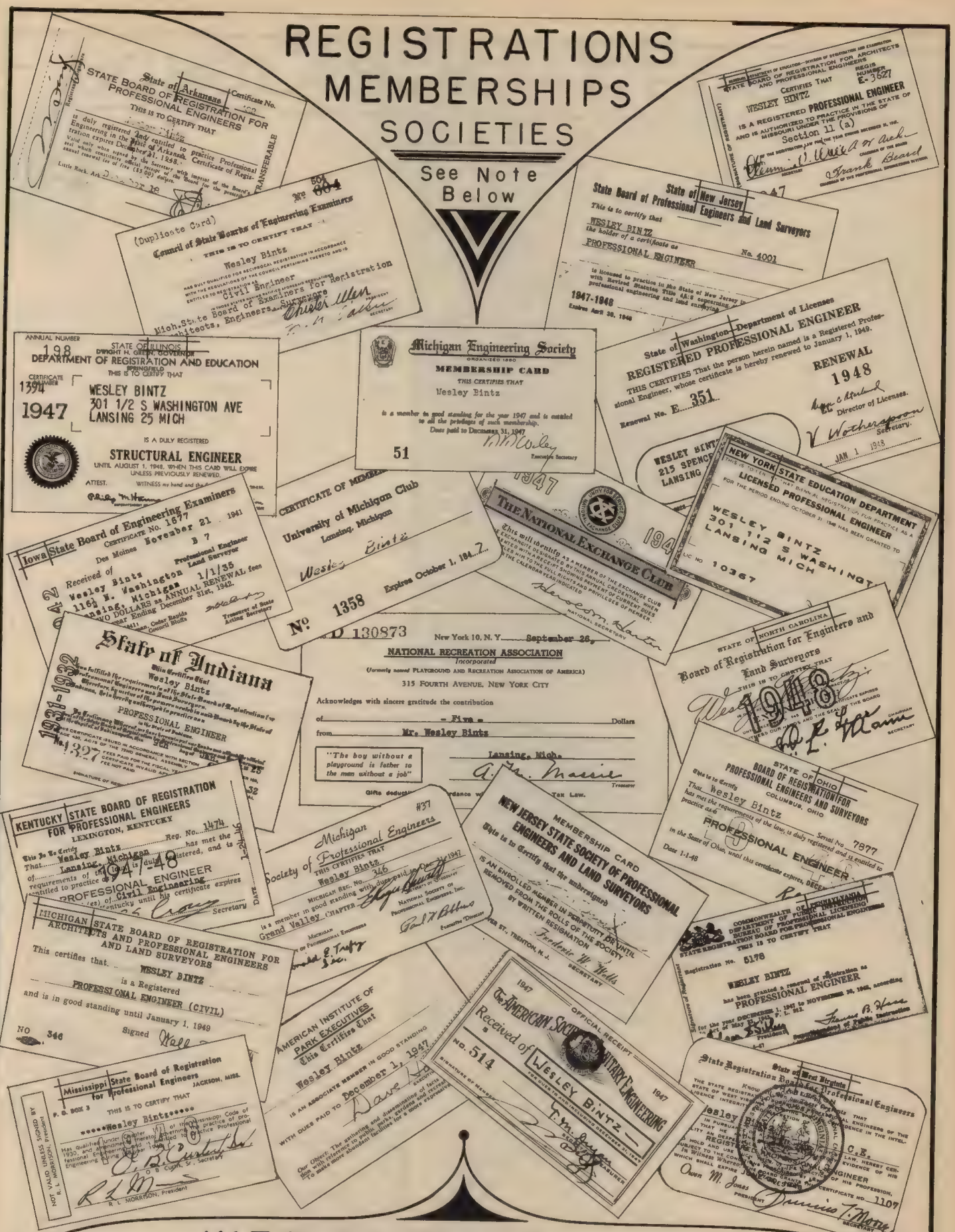
(The above 15 years ago. With a record that good eight years after we enter the field, the first Engineer exclusively in this specialized field, doesn't it seem reasonable that eighteen (18) more years should be very valuable to you or your community too?)



WESLEY BINTZ. Swimming Pool Designs. LANSING. MICH.

REGISTRATIONS
MEMBERSHIPS
SOCIETIES

See Note Below



WESLEY BINTZ, Lansing

NOTE: Registrations, Memberships, Etc. MAY OR MAY NOT be Up-to-date. Some Not Listed. Other Applications Pending. Exact Data Upon Request.

SCHOLASTIC - RECORD

UNIVERSITY OF MICHIGAN
ANN ARBOR
GRADUATE SCHOOL
OFFICE OF THE DEAN
May 3, 1933

TO WHOM IT MAY CONCERN:

This is to certify that Mr. Wesley Bintz, B.C.E., University of Michigan, 1916, was admitted to the Graduate School as a candidate for the master's degree in the fall of 1916. Mr. Bintz received the degree of Master of Science in Engineering in June, 1918. His record follows:

First Semester, 1916-17

Course	Number	Credit	Grade
Mathematics	71	3 Hrs.	B
Mechanical Engineering	35	3 "	B
Surveying	5	2 "	B

Second Semester, 1916-17

Civil Engineering	7	3 Hrs.	B+
Engineering Mechanics	5	2 "	A
Economics	38E	3 "	B
Elements of Military Engineering		3 "	B

First Semester, 1917-18

Engineering Mechanics	10	4 Hrs.	A

Second Semester, 1917-18

Civil Engineering Thesis			Satisfactory
Engineering Mechanics	10	6 Hrs.	A

A = Excellent
B = Good
C = No graduate credit

SEAL

Recorder, Graduate School

B

RESUME:

A SCHOLASTIC RECORD OF WHICH TO BE PROUD:

1. High School, Charlotte, Michigan.
   Credits required for graduation: 16. An extra credit (17) over that required for graduation, and college entrance, received, and the next to the highest grades in the class.

2. College of Engineering, University of Michigan.
   Degree received: B.C.E., Bachelor of Civil Engineering.
   Grade "A", (Excellent) 20 received, 69 hours.
   " "B", (Good) 16 received, 52 hours.
   " "C", (Fair) 6 received, 15 hours.
   " "D", (Passing) NONE
   " "E", (Failure) NONE
   Required for graduation: 140 hours, with average grade of 2.0, or above. Average grade shall be determined on basis of A equals 4, B - 3, C - 2, D - 1, and E - 0. Above number of hours equal 136, with four hours extra credit from High School, Total 140.
   The above average is almost double the required amount. It is 3.40.

3. Graduate School, University of Michigan.
   Degree: M.S.in E., Master of Science in Engineering.
   Grade "A", 3 received, 12 hours.
   " "B plus", 1 received, 3 hours.
   " "B", 5 received, 14 hours.
   See note under (2.). Average equals, 3.46.

MEMBER: American Society of Civil Engineers (M.Am.Soc.C.E.).
Membership - Approx. 1916 - 1936.
Qualifications: (Minimum Requirements) Shall:
1. Be able to conceive and design engineering works of importance, and
2. Be able to direct work of building same;
3. Have had five years responsible charge of important work;
4. Have been in active practice of his profession for 12 years;
5. Be at least 35 years old. And
6. Actual practice may include four years academic work.

AMERICAN SOCIETY OF CIVIL ENGINEERS FOUNDED 1852

JUNIOR MEMBER: (Previous to becoming MEMBER) Shall have been graduated in engineering from a school of recognized standing. (See above).

UNIVERSITY OF MICHIGAN
COLLEGES OF ENGINEERING AND ARCHITECTURE

Secretary's Office: Date April 12, 1932.

This certifies that WESLEY BINTZ

entered this College of ENGINEERING in SEPTEMBER 1912 on credits from

HIGH SCHOOL, CHARLOTTE, MICHIGAN.

Entrance Units

SUBJECTS	UNITS	SUBJECTS	UNITS
English	3		
Math.	3½		
Latin	2		
German	2		
Physics	1		
History	3		
Botany	1		
Commercial	1½	Total	17

Advanced Credit

SUBJECTS	HOURS
German 2	4

RECORD BY SEMESTERS

First Semester 1912-1913 / Second Semester 1912-1913 / Summer Session

COURSE	HRS.	GR.	COURSE	HRS.	GR.	COURSE	HRS.	GR.
Math. 1	4	B	Math. 2	4	A			
German 3	4	B	English 1	4	C			
Drawing 4	4	B	English 1a	1	B			
Chemistry 1, 1a	4	C	Chemistry 2, 2a	4	B			
	16		Shop Work 1	4	B			
				17				
Gymnasium Work passed			Gymnasium Work passed.					

First Semester 1913-1914 / Second Semester 1913-1914 / Summer Session

COURSE	HRS.	GR.	COURSE	HRS.	GR.	COURSE	HRS.	GR.
Math. 3	5	A	Math. 4	5	A			
German 4	4	B	Chem.Eng. 1	2	A			
Physics 1E	5	B	Physics 2E	5	A			
Chemistry 3a	4	B	Eng.Mech. 1	4	A			
			Drawing 1a	2	C			
	18			18				

First Semester 1914-1915 / Second Semester 1914-1915 / Summer Session

COURSE	HRS.	GR.	COURSE	HRS.	GR.	COURSE	HRS.	GR.
Surveying 1	3	A	Surveying 2	4	A	Surveying 3	8	A
Geology 1	3	B	Astronomy 3	2	A			
Eng.Mech. 2	3	A	English 5	2	C			
Eng.Mech. 3	3	A	Civil Eng. 2	3	A			
Eng.Mech. 4	2	B	Civil Eng. 2a	2	A			
Mech.Eng. 2	3	B	Mech.Eng. 3	4	A			
	17		First Aid 1	1	A			
				18				

First Semester 1915-1916 / Second Semester 1915-1916 / Summer Session

COURSE	HRS.	GR.	COURSE	HRS.	GR.	COURSE	HRS.	GR.
Civil Eng. 3	3	A	Civil Eng. 4	2	B			
Civil Eng. 5	3	A	Civil Eng. 6	2	A			
Civil Eng. 10	3	A	Civil Eng. 26	(1)	I			
Civil Eng. 30	3	B	Civil Eng. 27	1	C			
Civil Eng. 32	2	C	Political Eco. 1E	3	B			
Civil Eng. 40	2	B						
	16			8				

First Semester / Second Semester / Summer Session

COURSE	HRS.	GR.	COURSE	HRS.	GR.	COURSE	HRS.	GR.

Total hours of credit 140 Discipline None.
Left

GRADUATED, JUNE 24, 1916.

DEGREE: B.C.E.

SEAL

Granted an honorable dismissal at his own request.

Form 2034 4-30 1M

Signed

ENGINEER

WESLEY BINTZ

CONSULTING ENGINEER, CIVIL

SWIMMING POOL DESIGNS, SINCE 1923, AND PARK DEVELOPMENTS WITH ALLIED STRUCTURES EXCLUSIVELY.

DEGREES: B.C.E., M.S. in E., University of Michigan.

REGISTRATIONS: Michigan, States Council, New York, Illinois, Pennsylvania, New Jersey, Ohio, West Virginia, Washington, Kentucky, North Carolina, Arkansas, Mississippi, and others pending. See Note. Many Others '50

ORGANIZATIONS: Am. Park Soc., Elks, Nat. Exchange Club, Mich. Engineering Soc., Am. Soc. Sanitary Eng., Nat. Recreation Assoc., Am. Soc. Civil Engrs., 1916-36; Nat. Soc. Professional Engineers and Sub-Societies, Various State Chapters, Etc. See Note.

EXPERIENCE: (This is what counts. Be sure you get it.) Since 1923, Swimming Pool Designs Exclusively, 97 built, 7 under contract (Apr. '50. Besides Community Buildings and Sport Areas, they are: Bintz Pools and Sunken Pools with and without bathhouses and Wading Pools. Shapes: Rectangular, Ovoid, Irregular. Owners: Amusement Parks, Commercial, Country Club, Industrial, Municipal, Private estates, Real Estate Dev., Tourist Hotels, and Others. Located in 87 cities, 26 states, with three pools in three cities and two pools in three cities. See Note.

NOTE: (To prevent misunderstanding) Above data on basis of past and present, subject to change without notice, and presented to indicate our Professional Education, Ability and Qualifications to work out your Swimming Pool and Park Problems. 1950.

"AB UNO DISCE OMNES"—"From One Learn All." A good idea, if backed by EXPERIENCE. Be sure you get it.

LANSING 25, MICHIGAN, 301½ S. WASHINGTON AVE.

APRIL 1939

Reprinted from

THREE OF A KIND

CITY OF BEAUMONT, TEXAS

FOUR MUNICIPAL POOLS PROVIDE POPULAR RECREATION

By Frank L. Bertschler, *Superintendent Department of Parks, Recreation and Aviation, Beaumont, Texas*

Since the first municipal swimming pool was constructed in Beaumont, Texas, in 1921, the sport has become increasingly popular. Situated on the Neches River, forty miles from the Gulf of Mexico, Beaumont residents of former days took their swims in the river and some of its tributaries, or in the splendid surf along the beautiful Gulf. Surf bathing has grown in popularity through the years and attracts huge crowds from East Texas and West Louisiana every season. From May until October, surf bathing is enjoyed but, like pool bathing, is at its peak in June, July and August.

Although tens of thousands swim in the surf each week, demand for municipal pools has developed steadily. Four pools were operated for the 100 days in 1938 season with a total attendance of 111,660. The city's population is estimated to be 65,000. Excessive rainfall, which broke a fifteen year record, reduced attendance below pre-season estimates. Beaumont park officials have learned that pool patrons will not come out when the sky is over-cast or showers are pending. A light rainfall in the afternoon reduces attendance 50% for the day.

(1) The following description of Beaumont's swimming pools is in the order in which they were built. The oldest pool built in 1921, in Pipkin Park, near the business area and on the river bluff overlooking the municipal wharves and docks, is of orthodox sunken type. This first municipal pool was proposed because health officers had found the river bathing places polluted and the several commercial pools of the area were not operated on high standards. Circular in design, the pool is 100 feet in diameter, 20 inches deep at the edge and six and one-half feet deep in the center. A four foot concrete walk, and a six foot chain-link fence surrounds the pool. Showers are located at the entrance gate with a concrete walk leading to the twelve foot by fifty-two foot frame bathhouse. It is a "fill and draw pool" using water from the city mains. Operating personnel consists of a senior life guard, auxiliary life guard, and a night attendant who assists the guards in maintaining order among the spectators and in the bathhouse and who also has charge of the emptying, cleaning and filling operations. Admission is free and the pool is open from 6:00 A. M. until 9:00 A. M. and 3:00 P. M. until 9:00 P. M. daily excepting one day each week when it remains empty for special cleaning and sunning.

(2) The second pool, built in 1925, is 80 feet by 120 feet Ovoid, Bintz Type. The choice of design was made after considerable study by city officials. In Beaumont, the elevation is approximately twenty-five feet above sea level and the land is very flat. Storm sewers in the vicinity of the proposed pool were only four feet below grade. This condition made partial elevation necessary and brought first consideration of the Bintz pool. At that time, Beaumont had few developed parks, principally playgrounds of two to five acres. The site of the proposed pool was in the north side sixteen acre Magnolia Park, the largest developed recreational area at that time. The concentration of the Bintz pool and bathhouse structure, conserving needed playground space, was a deciding factor. This pool is completely equipped with showers, lockers, filters, recirculating system, chlorinator, ammoniator, and all apparatus and conveniences generally associated with modern swimming pools.

Operating personnel includes manager, matron, cashier, senior and auxiliary life guards and night attendant. Admission charges are 15 cents for adults, at all hours, and 5 cents for children until 5:30 P. M. and 10 cents thereafter. Hours adopted after much experimentation have been established from 3:00 P. M. until 10:00 P. M. Morning crowds were found too limited to justify a full crew necessary in interest of complete service and safety. The summer sun is too hot for mid-day swimming. Three mornings weekly are devoted to free periods including swimming classes for beginners and advanced pupils, diving and life saving classes, general swim periods for children and a special period exclusively for ladies with sixteen years as a minimum age. This latter has proven unusually popular and builds patronage, as do the free classes. The well-patronized free periods have apparently eliminated any possible criticism of fees for the regular hours.

Towels and suits are rented as a service with nominal charges being made to meet actual costs. Valuables are checked free, double signatures being required, as on travelers' checks, for identification. The pool suits are stripe-marked and alphabetically keyed for size and stenciled for identification. The same suit style, a common mixed, pepper and salt pattern, by a leading manufacturer (——————) has been used for thirteen seasons. Towels are furnished by laundries and are rented on a margin of one cent profit to cover losses.

BINTZ TYPE OF SWIMMING POOL AT MAGNOLIA PARK, BEAUMONT, TEXAS

NEW POOL AT ALICE KEITH PARK, BEAUMONT, TEXAS

The success of this pool, giving *perfect control* over *spectators* and *bathers*, and producing adequate revenues to maintain and operate without direct cost to the taxpayers other than retirement of the $40,000 bonded investment, was directly responsible for the Bintz system being chosen when a third pool was proposed.

(3) The third pool was erected in 1926 to serve the negro population, which constitutes about thirty per cent of the total census. Much study was given to location, after which, in the extreme south end of the city a three acre site was selected and the first negro park built with a pool as a major feature. Sewers built almost at the surface of the ground, very limited recreational space, necessity for efficient supervisory control, together with highly satisfactory experience with the first Bintz pool, all combined to make the choice of design quite logical. For financial reasons, a very economical structure was necessary. The pool proper is 45 feet by 90 feet, rectangular, with a lobby in front, dressing rooms along the sides, and rest and supply rooms at the rear. This pool has the "draw and fill" system but is otherwise completely equipped with modern facilities, including lights, recreational devices, showers, footbaths, wire baskets for checking clothes and other accessories. It is operated free at all times and is open daily from 6:00 A. M. until 9:00 A. M. and 3:00 P. M. until 9:00 P. M. excepting one day each week when it is thoroughly cleaned and sunned. Swimming is not a natural sport for the Negro, and when built, there were not enough Negro swimmers available to give a creditable demonstration at the pool opening program. Today their aquatic meets disclose excellent records and great numbers participate in all swimming and diving events. Personnel includes manager, matron, senior and auxiliary life guards and night attendant. The pool has proven to be a center of activity throughout the summer and attendance equals, and at times, exceeds any pool in the city.

SWIMMING POOL AT LIBERIA PARK, BEAUMONT, TEXAS

(4) Beaumont's fourth pool was opened for the 1938 season. It is located in a ten acre neighborhood park, built in 1932 to help revive unemployment and provide a long needed recreational center for the population in the southeast section of the city. The residents of the neighborhood are to a great extent employed in local refineries, shipyards, and other industries. The Bintz pool is the final feature of the original plan. Other facilities include a wading pool, six combination tennis and basket ball courts, horse shoe courts, two softball diamonds, two children's playgrounds, a park building, ornamental lighting and a rose garden of 2,500 bushes.

As a WPA project, which included sewer lines, water lines, sidewalks, and other park improvements, the pool was constructed and landscaped in about six months and was opened May 28, designated as city-wide "Splash Day." The pool is the last word in modern appearance, equipment and furnishings. Ovoid in shape, it is seventy by 105 feet in size and it resembles the first Bintz pool built in Beaumont except that improved details have been included as a natural development of twelve years. The filter plant and recirculating system provide a complete turnover of water every eight hours. Operating hours, fees and personnel are the same as for the original Bintz pool. The conservation of playground space, the simplicity of operation, and the complete control over spectators and bathers, (and locally spectators equal or exceed the number of bathers) were the deciding factors favoring the Bintz design. To have built a detached bathhouse and sunken pool would have required much more of the valuable play space.

With one sunken pool and detached bathhouse and three Bintz type pools of various sizes in our system, we have had excellent opportunity for comparison. We like the compact design of the Bintz pools because space with us is at premium, and even in our mild South Texas climate, the swimming season rarely passes the 100 day average. A sunken pool and detached bathhouse takes far more space for equal accommodations. During the closed season we can lock up a Bintz structure and it is secure, while being less of an eyesore in the landscape than an empty sunken pool.

However, of equal importance to us is the fact that spectators and bathers come in through one entrance, excellent control is given over crowds, automatically eliminating much of the disorder and "comment from the gallery" which we find at our sunken pool where the seats for the spectators are not included. Supervision is efficient, requiring very few employes to render rapid service, enforce regulations and safeguard the patrons. Cleaning up after operating hours is facilitated by all construction being of concrete, permitting the hosing down and spraying with chlorine compounds to be done rapidly.

Since we have gone to filter plants and recirculation, and all future pools will be so equipped, we do not find sewer depths so important, a problem which originally caused us to study the Bintz design, and which problem it solved so well. From our own experience we would not recommend that any city build a pool until funds are available for complete installation of such facilities. We have high temperatures all during the swimming season, yet through the cooperative services of our city bacteriologist, Dr. L. O. Bernhagen, we have maintained sterile water with no algae problems. Through footbaths and spraying with chlorine solution we have eliminated "athlete's foot."

In all operations we follow the recommendations of local and state health departments, and we are affiliated with the State Health Department's Beach and Pool Association. All managers, life guards and other male employes are required to have Red Cross Life Saving Certificates. A corps of reserves is being constantly trained. The majority of our employes are college students since the swimming season coincides closely with the summer vacation period. We closed the 1938 season without a single complaint of importance being registered by patrons; without a major accident or injury, and our receipts were apparently adequate to guarantee meeting the operations and maintenance budget for the fiscal year.

LOBBY AT ALICE KEITH PARK BATHHOUSE

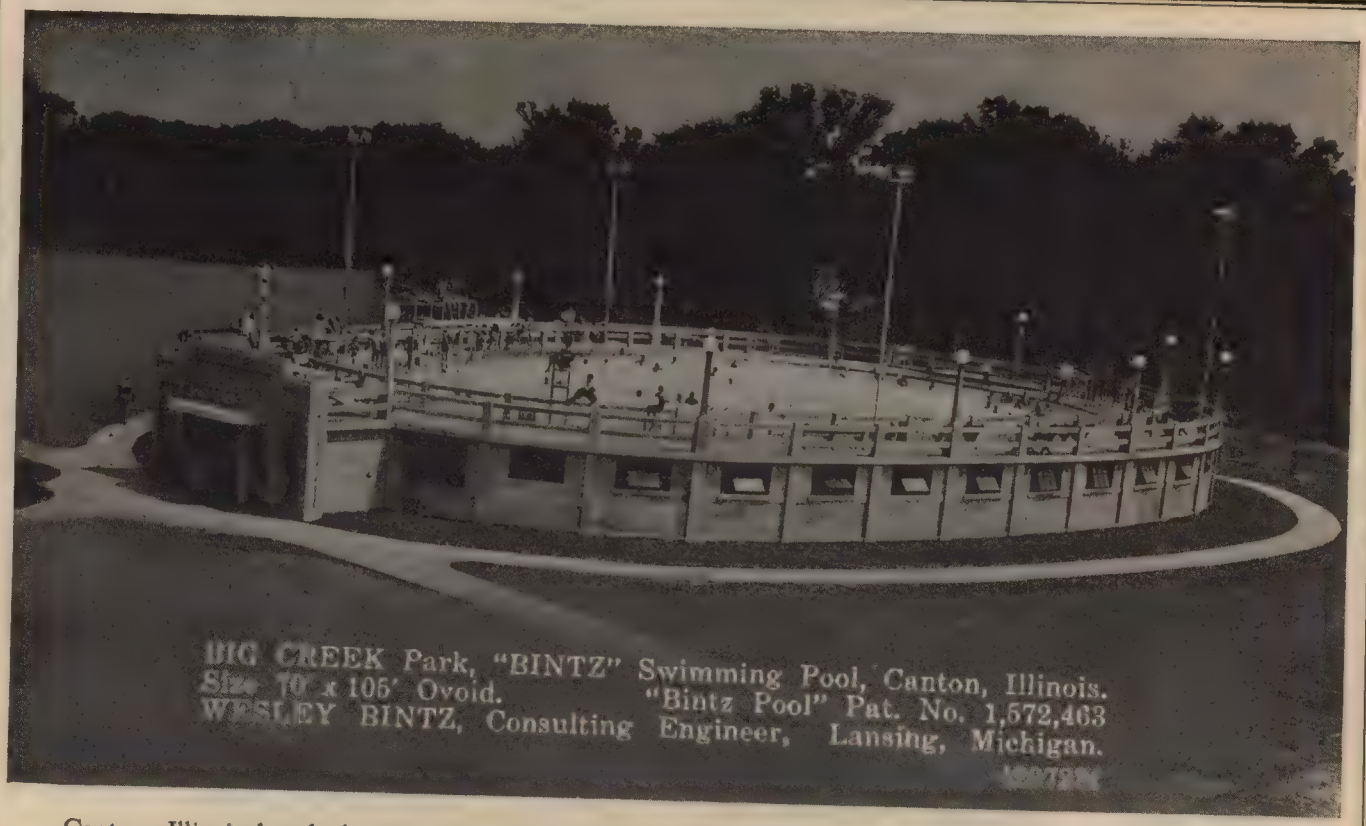
DATA ON FOUR SWIMMING POOLS LOCATED IN BEAUMONT PARKS

NAME of POOL / DATA	UNIT	PIPKIN PARK a	MAGNOLIA PARK	LIBERIA PARK b	ALICE KEITH PARK
Year Built		(1) 1921	(2) 1926	(3) 1927	(4) 1938
Type Pool		Sunken.c	Bintz.	Bintz.	Bintz.
Shape		Round.	Ovoid.	Rect.	Ovoid.
Size	Feet	100.0	80x120.	45x 90.	70x105.
Overall	"	112.4	113x175.0	65x115.0	99x143.0
Depths	"	1.7-6.0	3.0-9.0	3.0-9.0	3.0-9.0
Area-0'-3'	SqFt	1,364.4	0.0	0.0	0.0
-3'-5'	"	2,071.7	6,100.1	2,284.3	4,682.6
-5' up	"	4,417.9	2,056.6	1,744.2	1,382.1
-Total	"	7,854.0	8,156.7	4,028.5	6,064.7
Volume	Gal	268,000.0	256,000.0	156,000.0	208,550.0
Length Wall	Feet	314.2	338.3	261.4	289.7
Swimmable,3'up	Per Cent	82.5	100.0	100.0	100.0
Wadable,5'down	"	43.7	74.8	56.7	77.2
Concourse Floor	Feet	6.2	16.5-24.3	10.0-15.0	14.5-20.2
-Widths-Bathers	"	6.2	9.0-20.7	10.0-15.0	7.5-18.5
-Spectators	"	0.0	7.5-11.5	0.0	7.0- 9.7
-Area-Bathers	SqFt	2,071.2	4,243.5	3,446.5	2,959.7
-Spectators	"	0.0	2,900.0	0.0	2,079.5
-Total	"	2,071.2	7,143.5	3,446.5	5,039.2
Bathhouse					
-Area,Net	SqFt	624.0	6,217.5	2,772.0	4,509.8
-Bldg.Equiv.	Feet	12.5x52.5d	30x215.0	30x98.0	30x160.0
Children's Wading Pool		NO.	NO.	YES.e	YES.e
Capacity--(1:10 Shallow-3' to5': 1:30 Deep-5' and deeper).					
-At one time	Bathers	335.	663.	287.	515.
-Daily,f.	"	1,065.f	2,000.	860.	1,550.
Toilets	g.	2.	6.	3.	8.
Urinals	g.	1.	4.	2.	4.
Lavatories	g.	0.	2.	2.	6.
Showers		1.h	24.	4.	16.
Footbaths		0.	0.	0.	2.
Spring- & Diving Boards			11.	1.	8.
Ladders			10.	4.	6.
Lockers		0.	777.	0.	416.
Baskets		0.	0.		0.
Filter Plant		NO.	YES.	NO.	YES.
-Turnover	Hrs.	0.	8 hour.	0.	8 hour.
-Per Hour	Gal	0.	32,000.	0.	26,100.
Wire Fence		YES.i	NO.i	NO.i	NO.i
Cost-Contractile			$42,000.00	$8,600.00	$32,000.0

SWIMMING POOL AT PIPKIN PARK, BEAUMONT, TEXAS

NOTES: a.This is a so-called saucer-shaped pool. b. This is a pool for the colored people. c.Sunken pool and bathhouse built separately. d.Actual size of bathhouse. e.Not built as part of pool.f.Three times capacity "at one time". Naturally dependent upon capacity of bathhouse facilities. g.Men and women bathers only.h.Not cleansing showers. i.Not required with "BINTZ POOLS".

Note Underscorings



Canton, Illinois has had quite a time with their swimming pools. They built one in 1931, and it went haywire. Poor professional service is always expensive. They tried to fix it up about 1940. No Luck. Finally abandoned it. Then they employed some professional service to get out Plans and Specifications for a swimming pool. After they were all set to go ahead, they heard about BINTZ POOLS.

Well, investigation showed that they had better start over again, and so they did. They threw $2500 and the Plans and Specifications for a Sunken pool out the window. And are they glad? Why not, they saved about $15,000 and got a better swimming pool.

This is what they got: A pool 70′ x 105′ Ovoid, a bathroom with an area of over 4500 square feet, a concourse floor around the pool 14′-6″ wide with an area of over 5000 sq. ft., a unique swimming pool that attracts people for miles around, fully equipped with steel lockers, filter plant, concession stand, toilets for the public as well as the bathers, and other facilities too numerous to mention. Cost $40,000.00.

And a unique feature is the Underwater Observation window that can be had with this particular type pool. This underwater window, 18″ x 24″, allows spectators to watch the bathers and swimmers, or the swimming coach those learning to swim, under the water. It is quite a feature with the top of the water forming an impenetrable ceiling thru which light streams but thru which you cannot see. And if you really want to see a sight for sore eyes, take a look when they have the underwater lights on. Of course it is a beautiful sight then from anyplace, but especially from this underwater observation window.

Now, along with all these fine advantages, the Park Board got a lot of other things: First they saved about $15,000 cash over what a similar pool of the conventional type would have cost, 2. They have no unsightly fence around the pool, 3. The pool is up and out of frost action, 4. The sewer is about eight foot shallower, 5. They can service all their inlet pipes, outlet pipes, scum gutter drains, underwater lights, etc., from this bath-room area, 6. They saved a lot of ground space, that was required by the usual bathhouse, 7. They saved a lot of excavation and didn't have to mar the landscape with a lot of grading, 8. Got a really beautiful architectural structure, different from anything people around these parts have ever seen, and —space doesn't permit mentioning them all.

And then, with the Ovoid shaped pool,—not round —with parallel squared ends, they got these advantages: 1. About a 10% larger pool, 2. Wall about 10% shorter thereby saving construction cost, 3. 25% more water of the proper wadable depths, and 4. Better pool for aquatic meets—for both spectators and swimmers.

Pools like this in other parts of the Country show they stand up much better than the Conventional sunken pool and bath-house, and Canton is surely proud of their deal. It cost them a little extra for not doing their investigating first, but being stubborn would have been very costly. "Drop around and see us sometime" is their motto. They are proud of their swimming pool. Why not ? ? ?

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WESLEY BINTZ, B. C. E., M. S. in E.

Consulting Engineer, Civil

Swimming Pool designs and consultation only

LANSING 15, MICHIGAN

JAMES WHITCOMB RILEY MEMORIAL PARK "BINTZ" SWIMMING POOL, GREENFIELD, INDIANA.

Dimensions and Quantities

Pool Proper 80'x120' Ovoid.
Overall 1[illegible]3' x 166'-6"
Area Pool 8,156.7 sq. ft.
Volume Pool 256,000 gallons.
Depths Pool 3' to 9'.
Concourse Floor, width 16.5' to 25.8'.

Concourse Floor, Area, 7,143.5 sq. ft.
Bathroom, Area, 6,217.5 sq. ft. Building Equivalent 30'x225'.
Kiddies' Wading Pool 12'x25'.
Daily Capacity of Pool 2,500 Bathers.

Contracts

General	$16,361.25
Plumbing	2,650.00
Lighting	598.67
Equipment	2,037.90
Painting	1,511.50
Purification	2,932.00
Total	$26,091.32

1929

NOTE: Bathroom 99% permanent. Actual cost within $93.00 of Estimate. For Sunken Pool Equivalent add $8200.00. Get further complete pool data by writing

WESLEY BINTZ
B.C.E., M.S. in E.,
CONSULTING ENGINEER (CIVIL)
Swimming Pool Designs Exclusively
LANSING, MICHIGAN

JAMES WHITCOMB RILEY MEMORIAL POOL

"The Old Swimmin' Hole" Now Permanent

OH! the old swimmin' hole!" How many times that phrase has made Park Boards and Mayors and City Councils and park and recreation officials scratch their heads and think what they were going to do to take its place. As this writer has told numerous inquirers for pool information, when the amount of money available was positively inadequate, "The old swimmin' hole ain't what she used to be." "The old swimming hole" was kept relatively fresh by a constant flow of fresh water, when old sanitary conditions around the house were mostly confined to cess pools or kindred structures. But when modern sewers came into being, and their contents were dumped into waterways, it became necessary to replace them with a substitute. The substitute was usually a hole in the ground, usually concreted and no details. The bathhouse was an old wooden shack with no thought of being sanitary and with no sanitary facilities except an absolute minimum. The old swimming hole had to be abandoned because it became polluted. The result of all this has been the rather modern swimming pool. Some more modern than others, with a more or less highly developed degree of sanitation for not only the bathers and bathhouse, but for the water which they use.

Fire years ago the Park Board of Greenfield, Indiana, was authorized and put into operation. The main operations of this Park Board were in connection with Riley Memorial Park, the park made famous by James Whitcomb Riley, the Hoosier poet, through his nationally known poem, "The Old Swimmin' Hole." This was a bathing place in the waters of the Brandywine which flows through Riley Memorial Park. The matter of a swimming pool was one of the first considerations of the Park Board, which was brought to a definite head by its present Park Board, consisting of its president, Mr. Herbert Monger, and his very able staff of associates, Mr. G. B. Davis, Dr. J. L. Allen, Mr. W. W. McCole and Mr. W. R. Dudding. After a very thorough investigation of swimming pools and those purporting to design same, and knowing that this swimming pool must be correct in every phase of its construction, architecture, operation and sanitation, because of its national appeal, they employed the writer, who had had not only vast experience in structural engineering, but also in the designing of numerous swimming pools.

This writer was given a contract under date of December 10, 1929, to prepare plans and specifications for a sunken swimming pool, 75 feet by 120 feet, rectangular. Sketches were prepared and sent the board for approval, but they finally came to the conclusion that they were making a mistake in building an ordinary sunken pool, and finally, on January 6, authorized this writer to proceed with plans and specifications for a Bintz swimming pool, 80 feet by 120 feet, Ovoid, having accommodations for 500 bathers, and to keep the cost inside of twenty-five thousand dollars ($25,000.00). On February 11, they were sent complete plans and specifications on this project comprising 12 pages, 24 inches by 36 inches of details, and the specifications comprising 45 pages, 8½ inches by 11 inches single-space typing, covering every detail and phase of the work. On Monday, March 10, bids were opened and the contract immediately awarded to Mr. E. F. Smith, Foster Engineering Company of Indianapolis, Indiana. Actual construction work was started the last part of March, and the pool officially opened, dedicated by appropriate ceremonies, and put into service on July 4, 1930.

A little inspection trip around this pool of national interest and unique design will be of interest. Upon entering the front door, we find ourselves in a spacious, well-lighted, clean-cut entrance room, where we make our small deposit for swimming, with the men passing to the right and the women to the left, and those not swimming, that is, the spectators, pass directly to the concourse floor by stairway by each side of the entrance at the front. On account of the necessity of keeping the cost down, a clothes checking system was installed in place of the usual modern locker system.

We follow the men around to the right and find ourselves in a nice large dressing room, exceptionally well lighted and ventilated in which we find benches and showers and a counter for checking their clothes. Passing on back to the rear of this room we come upon the complete sanitary system comprising toilets, urinals and lavatories, and man bather is ready to pass up to the concourse floor through a foot bath.

Going around to the left on the women's side, we enter the women's room. This room is the same size as on the men's side, namely 14 feet by 100 feet. Now we find nicely curtained dressing rooms and showers for the women's use. A counter is connected up with the checking system for use in checking their clothes. To the rear of the ladies' dressing rooms, we have another adequate sanitary system for the use of the women, and they pass on to the concourse floor through a foot bath Notice the continuous floor drain here, same as on the other side. This allows flushing off the locker room floors as well as all other floors in the bathroom area, so that same can be kept constantly clean, fresh and sanitary.

Let us complete our inspection of this bathhouse. To the rear of the men's room we have a public toilet room for the men public. To the rear of the women's dressing room, we have a rest room for the use of the women public complete with all sanitary facilities. To the extreme rear of the pool we have a space for the installation of the sterilization, purification and recirculation equipment and electrical control. This filter plant is an 18,000-gallon-per-hour plant, and will turn the water over in the pool in less than 15 hours. To keep down expense, only two filters of the final three were installed but all piping, pumps and motor, etc., were made of sufficient capacity to take care of the third filter at any time. In connection with the filter plant, it will be of interest to note here that upon filling the pool with city water, there is so much iron in the water that the pool looked almost like a mud hole. It was impossible to see the bottom of the pool at the three-foot end. After running the filter plant about 24 hours, the water was as clear as a crystal, and the bottom of the pool was easily seen at the nine-foot depth.

Let us follow the bather up to the concourse floor. Here we have a little kiddies' wading pool (see picture), size about 12 feet by 25 feet, ranging in depth from 6 inches to 12 inches, and completely screened around for protection of the kiddies. This little kiddies' pool is very safe and is used a great deal by the parents who want to come and swim and still who do not want the kiddies out in the deep water. The pool proper is 80 feet by 120 feet ovoid. The ends are squared off with a width of 36 feet, this being sufficient for seven swim lanes of 5 feet each with a length of 40 yards. The concourse floor is divided for use of both bathers and spectators. A perusal of the picture will indicate many other interesting features.

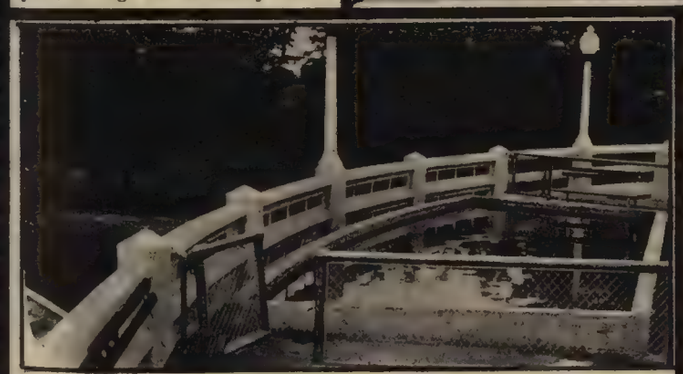
A few dimensions and qualities will be of interest here. The pool has over-all dimensions of 183 feet by 166 feet 6 inches. The pool has an area of 8,156.7 square feet. The pool varies in depth from 3 feet to 9 feet and has a volume of 256,000 gallons. The concourse floor varies in width from 16 feet 6 inches to 25 feet 10 inches and has an area of 7,143.5 square feet. The bathroom has a net area of 6,217.5 square feet which is equivalent to a building 30 feet by 215 feet. And let us add here, that outside of wooden doors and frames, there is not a stick of wood used in the entire pool or bathhouse construction. The pool wall, which is of concrete, forms one side of the bathroom, and the concourse floor around the pool forms the ceiling to this bathroom. (This is the Bintz patent.) Of course, the bathroom has a concrete floor, and as the picture indicates, the outside wall is of a high-grade brick, limestone window sills and steel-sash windows. The stone work in the front is of limestone and the railing and lamp posts are of reinforced concrete, octagonal in shape.

A few quantities used in the construction of the project should be of interest. There was 564 cubic yards of excavation, which was used to put under the pool floor to get proper pool depths. There was 58 cubic yards of hand excavation and 132.5 cubic yards of cinder subdrainage under the pool floor and under the locker room floor. There was a total of 278.2 cubic yards of concrete involved. There was 18.6 tons of reinforcing steel, 3.1 tons of steel mesh, and 8.2 tons of steel joist. A septic tank was built which was 5 feet high by 5 feet deep by 32 feet in length, all properly baffled and detailed. One thousand fifty feet of 3-inch drain tile was used under the locker room floor and pool floor. Over 500 feet of 3-inch to 12-inch sewer tile and fittings were used in sewer underground work. The concrete railing on the pool has a total combined length of 510 feet. There was 788 square feet of steel sash and glazing. Four hundred feet of floor drain, expansion joint, counters, checking system, high dive, spring board, depth signs, spectators' railing, scum gutter drains and other details too numerous to mention were also involved.

And what did all of this cost? We must say here before proceeding, that the original design called for the existing outside brick curtain walls to be of wood and the concrete railing to be of wood, otherwise everything was built as above mentioned. Our estimate on the cost of this project, not including equipment as noted below, was $14,385.83. On opening up bids, we had a low bid of $14,000. We had actually underestimated the construction cost by the low bidder by only 2.1 per cent. However, we picked up a little on the equipment figures which were as follows: Plumbing, $2,090; lighting, $493.37; equipment, for pool, $1,130.65; painting, $1,463.50; purification system, $2,932. This writer indicated above that he was advised that the cost be kept at or below $25,000. We found upon adding up all of our contracts, including engineering commission, that we had missed it by just $96. The Park Board indicated that this was rather an unusual procedure, but it isn't with the writer, that is, to have the structure cost within the figure set. They indicated that they actually had two or three thousand dollars more money to put into the pool. This writer therefore suggested that they eliminate the outside wooden curtain wall and substitute a nicely paneled brick instead. This was done at an added cost of $685. We then suggested that it would be a shame to have a wooden railing on this beautiful structure and so recommended a permanent railing. This two-line, octagonal, reinforced railing was then added at a cost of $955. The total construction and equipment cost, including added features, and substitution of brick and concrete for wood, was therefore $26,091.31. To repeat, this gave them a pool 80 feet by 120 feet ovoid, a permanent brick and concrete bathroom equivalent to a building 30 feet by 215 feet without any wood except doors and frames, an overall structure 133 feet by 166 feet 6 inches ovoid, and equipment as noted.

Since this pool, as above indicated, has a great deal of national interest, since it is Riley's "old swimmin' hole," made "modern," anyone desiring pictures or further information in regard to this project is requested to write to Mr. R. H. Monger, president Greenfield Park Board, Greenfield, Indiana, or to the writer, designer and patentee, Mr. Wesley Bintz, consulting engineer, Lansing, Michigan.

James Whitcomb Riley Memorial Pool, Riley Park,



Top—Riley Memorial Park Swimming Pool at Greenfield, Indiana. *Center*—"The Old Swimming Hole" made famous by James Whitcomb Riley. *Bottom Section*—Riley Memorial Park Pool.

The Old Swimmin' Hole IS NOW The Riley Memorial Park Pool

By Wesley Bintz
Its Designer

WESLEY BINTZ
B.C.E., M.S. in E.,
CONSULTING ENGINEER (CIVIL)
Swimming Pool Designs Exclusively
LANSING, MICHIGAN

Oh! the old swimmin' hole whare
the crick so still and deep
Looked like a baby river that
was layin' half asleep.
And the gurgle of the worter
round the drift just below
Sounded like the laugh of something we onc't ust to know.
Before we could remember anything but the eyes
Of Angels lookin' out as we left Paradise;
But the merry days of youth is
beyond our controle,
And it's hard to part ferever
with the old swimmin' hole.

Dimensions and Quantities

Pool Proper 80'x120' Ovoid.
Overall 183' x 166'-6"
Area Pool 8,156.7 sq. ft.
Volume Pool 256,000 gallons.
Depths Pool 3' to 9'.
Concourse Floor, width 16.5' to 25.8'.
Concourse Floor, Area, 7,143.5 sq. ft.
Bathroom, Area, 6,217.5 sq. ft.
Building Equivalent 30'x225'.
Kiddies' Wading Pool 12'x25'.
Daily Capacity of Pool 2,500 Bathers.

YEAR: 1929

Contracts

General	$16,361.25
Plumbing	2,650.00
Lighting	598.67
Equipment	2,037.90
Painting	1,511.50
Purification	2,932.00
Total	$26,091.32

Riley's "Ole Swimmin' Hole" Made Modern

by WESLEY BINTZ

The Old Swimming Hole Turns Modern in the Interest of Sanitation

By WESLEY BINTZ
Consulting Engineer; Swimming Pool Design, Lansing, Mich.

JAMES WHITCOMB RILEY MEMORIAL PARK "BINTZ" SWIMMING POOL, GREENFIELD, INDIANA.

BRUCE POOL: "Bintz" Swimming Pool, New Martinsville, W. Va., Size 60′ x 90′ Ovoid. "Bintz Pool" Pat. No. 1,572,463
WESLEY BINTZ, Consulting Engineer, Lansing, Mich.

"On April the 23rd, 1940, I was out in my high top boots with other City Officials and the fire hose, washing the mud off of the streets of our fair city, which the equally fair, at other times of the year, Ohio River had deposited thereon as it receded from one of its rampages. And while in the midst of this rather dirty and wet operation, Mr. Bintz autoed into town, thru one of the unflooded streets, and finding me said, 'How about that swimming pool you folks been talking about?' I told Mr. Bintz 'This is a hell of a time to talk Swimming Pools,' and referred him to several of the City Aldermen.

"Well, Bintz sure set my aldermen on end with his Bintz and Ovoid Pool. If it was only true!

"We called Mr. Bintz in to confer with us, at which time he explained his one-unit, coordinated and combined pool and bathhouse, the Bintz Pool, which, besides saving 25% to 40% has a dozen outstanding advantages over the old-style, two-unit sunken pool and bathhouse. He also explained his Ovoid Pool, which besides saving about 10%, has three or four advantages over the Conventional rectangular pool.

"After some investigation, we found that Bintz was really telling the truth, in fact, was over conservative in his statements, altho I'm willing to admit that some of the things he tells you are hard to believe at first. Anyway, we threw away $250 that we had already expended on Plans for a sunken pool and bathhouse, and retained Bintz professionally for engineering services for a Bintz Pool.

"We got a beautiful pool as the above picture will show. The pool has the following dimensions and equipment: Overall 89′ x 128′, pool 60′ x 90′ Ovoid, area 4,435 Sq. Ft., depths 3′—11′, volume 173,500 gal., 100% swimmable, 70.8% wadable (3′—5′ deep), has a concourse floor 14′—6″ wide, area 4,505 Sq. Ft., small wading pool for children, and pool fully equipped.

"The bathroom has a net area of 4,007 Sq. Ft. equivalent to a building 30′ x 145′, and is 100% permanent construction. The layout provides for a beautiful lobby, 35′ x 18′, with tile counter, shelving for suits, towels, etc., space for ticket office and concession stand, office and first aid room. The men and women's locker room, each about 13′ x 100′, has 256 steel lockers, private dressing stalls and 6 showers for women, shower room with 6 showers for men, toilet rooms for bathers and public with 10 toilets, 5 urinals, and 10 lavatories, a filter and control room 14′ x 40′, and other details such as footbaths, vanity shelves, mirrors, etc. The filter plant is a gravity 8-hour, Bintz designed system, and has kept the water in a beautiful condition at all times. The bathroom is beautifully lighted and ventilated, with lights for night use all around.

"The pool was built W.P.A. at a total cost of about $30,000.00.

"Our swimming pool has been a great asset to the city, was the first unit in our park development, and has won high praise from tourists from all over the U.S.

"We are working on another recreational unit, which is to look like our pool, but which will have two full floors for ice and roller skating, band shell, grills, fire places, etc., for winter and summer use.

"We have been so well pleased with our pool that we want other communities to benefit by our experience, and so have been instrumental in getting several other cities to retain Mr. Bintz for their professional pool service.

"We will be very glad to answer any questions about our pool that we can, and suggest that you write either me or our Engineer, Mr. Wesley Bintz, Consulting Engineer, 215 Spencer Street, Lansing 15, Michigan."

Published by courtesy of

ROBERT L. BRUCE, *Mayor*
New Martinsville, W. Va.

A Community Club Builds A Pool To Honor Returning War Veterans

North Attleboro Group Tackles "the Job that Couldn't Be Done"

By
DR. CHARLES A. BOWMAN, JR.
Secretary, North Attleboro Kiwanis Club

A MUNICIPAL SWIMMING pool for the children of North Attleboro, Massachusetts, had always been a beautiful dream for someone, somehow, someday to build. The idea was fine, but the wherewithal was lacking. It seemed that in an industrial community of 10,000 persons, resources for such a venture were just not available. Or so it seemed until the Kiwanis Club decided otherwise and proceeded to tackle "the job that couldn't be done."

After securing the endorsement of town administrators and local organizations, the Kiwanis Committee put its collective heads together and came up with every conceivable form of money-raising plan — sponsorship of wrestling matches, movies, bond drives, paper drives, and individual solicitations. The original sum needed in 1945 was $40,000.

The next step was to appoint a committee to select the best type of pool for North Attleboro. This committee conferred with sixteen local contractors in order to secure their views and ideas regarding the construction of the pool. The hours and days voluntarily contributed to the cause by these contractors would represent many additional dollars in the cost of the project.

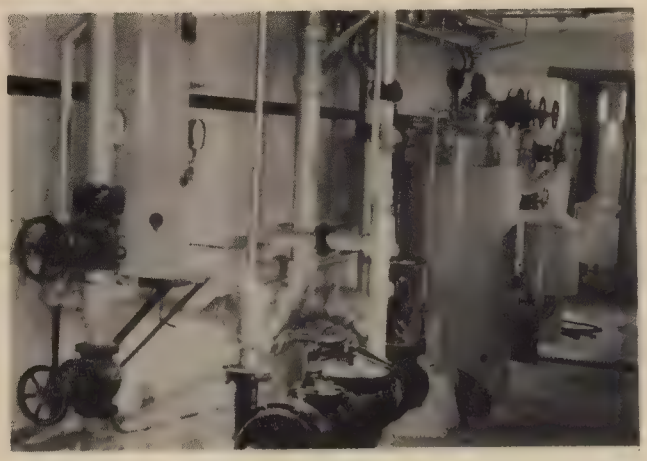
War Memorial

In the course of events, inflation hit the Kiwanis fund a severe blow, and it became necessary to start a second financial drive. A Welcome Home fund, reserved for returning veterans, was turned into the Memorial Swimming Pool Fund amounting to $14,000. New donors were found, and the completion of the pool was thus made certain.

After much study and comparisons of the kinds available, the committee decided upon an ovoid-shape Bintz pool.

Among the advantages of this kind of pool which appealed to the committee are the following: It gives about a 10 per cent larger pool and about 25 per cent more wadeable water as compared with the conventional rectangular pool; the pool sets up and out of frost action; all pool fixtures going through the pool wall can be serviced; the sewer is 8 feet more shallow, which means we could get into the storm sewer from the pool outlet; the surface dirt blowing along the ground does not blow into the pool; no excavating; and other features.

The general dimensions of the completed pool are about as follows: The



A view of the filter plant.

Interior view of the men's locker room.

pool is a 60′ x 90′ ovoid pool, with overall dimensions of 77′ x 120′. The pool itself has an area of 4,435 sq. ft., with depths of 3′-11′, and a volume of 173,508 gallons. This pool is 100 per cent swimmable, and 70.8 per cent wadeable. This pool has a capacity of 357 bathers at one time, with a daily capacity of about 1,100.

The concourse floor has a width of 8′6″ at its narrowest point, with a total area of 2,592 sq. ft. The bathroom has an area of 2,184 sq. ft., equivalent to a building 25′ x 94′. Fixtures are essentially as follows: provision has been made for 312 baskets; there are 10 private dressing stalls for the women; five benches for men.

The public toilets for men and women and the toilet facilities for the bathers comprise a total of 8 toilets, 4 urinals, 6 lavatories, 8 showers and 2 footbaths. There are 20′ of vanity shelves, with counter, shelving and keyboard in the entrance room.

Filter Room

The filter room, which is approximately 9′ x 36′, has been equipped with diatomaceous earth filters, proper pump and motor, sterilizer, and electrical control for the entire project.

On the pool deck is a children's wading pool fully enclosed, 5′ x 20′, with depths of 6″-12″, and extra play area. There is a spectators' area approximately 110′ long and 6′ overall wide.

The construction of this pool was rather unique in that the pool wall was built of 8″ x 12″ x 16″ concrete block, laid up with a 2″ mortar joint and fully reinforced vertically and horizontally. This showed a substantial saving over the usual type of construction. There is a total of 170 cubic yards of concrete on the job; 5100 concrete blocks of various sizes; 135 sq. yards of plaster. 5.6 tons of reinforcing steel, 385 sq. ft of steel sash and glazing, 16,500 sq. ft. of painting.

The pool is equipped with one 1-meter springboard, one 3-meter springboard, 11 depth signs, 6 ladders, guard rope and floats, four 1000-watt floodlights on 25′ standards, 4 painted swimming lanes, etc.

The final cost of this pool was $57,500, distributed as follows: General Contract, $29,000; Plumbing, $9,600; Electrical, $2,500; Pool Equipment and Bronze Plates, $2,400; Purification System, $6,500; Engineering and Miscellaneous Items, $7,500.

Bintz Designer

This pool was designed by Wesley Bintz, consulting engineer. It was built under the supervision of Elmer Ralston of W. H. Riley & Son in cooperation with other general contractors, plumbers and electricians, who did the work generally on a no-profit basis.

Dedication of the completed pool was held on June 2, 1951. Both veterans' organizations and other civic groups have expressed approval and endorsement of the project.

The Board of Selectmen wrote as follows: "Our members wish to congratulate the local Kiwanis Club in undertaking to build a War Memorial Swimming Pool for our Town. The project is one which will undoubtedly provide great enjoyment and physical benefit to the people of our Town, and the Selectmen are pleased to extend their endorsement."

William Degrenia, Commander of the Newell-Blais Post 443, V. F. W., wrote as follows: "The post wishes to express its hearty approval and endorsement of the swimming pool for the youngsters of North Attleboro. . . . We feel that dedicating this pool as a memorial to the veterans of World War II will be a useful and fitting manner of honoring the returning veterans."

As this article is written, three months after the dedication, 20,000 children's admissions have been counted. They have used the pool under expert and experienced supervision. The parents of these children now cannot imagine how they ever got along without this memorial pool which seemed at first a project that was "too much to handle."

WESLEY BINTZ

Consulting Engineer, Civil

Swimming Pool Designs and Park Developments Exclusively Since 1923.

301 S. Wash. Ave., Lansing, 25, Mich.

A COMMUNITY HOUSE WITH AN OVOID POOL

This project was completed in Toledo, Ohio in 1949. The community house is 44' x 60', two stories. The pool is a 60' x 90' OVOID BINTZ POOL. The first floor of the community building with apartment for caretaker, offices, recreation rooms, heating plant, first aid room, stairway, and spacious lobby, ties in with the locker room floor of the BINTZ POOL. The second floor of the community building, with large assembly room or gymnasium, office and kitchen, ties in directly with the spectator's area of the concourse floor around the BINTZ POOL.

WESLEY BINTZ, Consulting Engineer, Civil, 301 S. Washington Ave., Lansing 25, Mich.

Preprinted from SWIMMING POOL DATA & REFERENCE ANNUAL, 1950

Why Wellsboro Built a Straw-Hat Swimming Pool

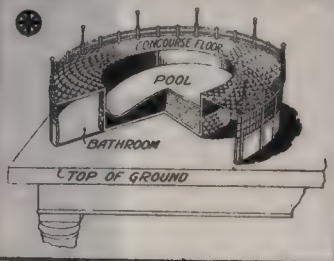
By J. R. Crosetto
City Engineer, Wellsboro, Pa.

TO THE east of the business section of Wellsboro is a wooded park with winding walks and drives leading to a hill which gives a view of the village. In this park, with the aid of Wesley Bintz, consulting engineer, of Lansing, Mich., we built a swimming pool as the start of a recreational center.

This design provides an ovoid or egg-shaped pool 60 x 90 feet and placed like an inverted straw hat. The crown represents the pool wall and pool floor, and the brim the concourse floor around the pool. This floor also forms the ceiling of the bath-house around the pool, one side being the pool wall. It is then only necessary to build the outside curtain wall and floor to have the bath-house.

We find the advantages of the Bintz pool, as compared with the conventional sunken pool and bath-house, to be:

1. Costs from 25 to 40 per cent less.
2. No excavation required on level ground, except for footings.
3. No fence needed.
4. Sewer 8 feet shallower, allowing access to shallow outfalls.
5. Less land by one-third, allowing space for other recreational activities and on hilly ground a smaller area to level off in preparation for building.
6. It is built up from the ground and away from damaging water and frost action.
7. Pool and bath-house being all concrete construction, the maintenance costs are reduced to a minimum.
8. By compact and convenient arrangement, lower operating costs and better control of bathers and the many spectators at the pool.
9. Because the pool wall becomes one side of the bath-house around the pool, all inlet pipes, outlet pipes, drains, and underwater lights can be immediately serviced.



10. Architecturally, this pool will fit in almost any environment, particularly our wooded park, and is decidedly different, new, novel.

Since the building of this ovoid-shaped swimming pool, everyone of high-school age in Wellsboro knows that the largest area which can be inclosed inside a line of given length is a true circle. But a circular pool is not good-looking, and it is hard to work out proper pool depths economically in one. The ovoid pool gives a larger water area with a shorter pool wall than any other design.

The ovoid pool takes into consideration the matter of arch and tank design and, while a rectangular pool wall needs a footing having a width of practically two-thirds the height of the wall, this large footing is entirely eliminated in the ovoid pool. Our pool wall serves as a tank and not as a retaining wall. So, we have not only a shorter pool wall to build, but one having less concrete and steel in it.

In an ideal pool, 85 per cent of the water is from 3 to 5 feet deep, with 15 per cent deep water for diving. This condition can be obtained only in large pools, since 30 to 40 feet from one end is required for diving purposes. An ovoid pool gave us 26 per cent more water of the proper wadable depth than a rectangular pool of similar dimensions.

In holding aquatic meets in a rectangular swimming pool, the two outside lanes are considered handicap lanes. There are no handicap lanes in the ovoid pool. While the spectators' seats are placed in a straight line along the side of the rectangular pool and their neighbors to the right and left interfere with their view of the contestants, with the ovoid pool the spectators are placed in an arc following the curve of the pool and therefore have a much better view of any aquatic event.

These, then, are the essential advantages of the ovoid pool as compared with the rectangular pool: (1) shorter pool wall; (2) cheaper wall; (3) greater per cent of wadable water; (4) better for both contestants and spectators at aquatic events.

Our 60 x 90-foot ovoid pool, with over-all dimensions of 77 x 120 feet, has an area of 4,435 square feet, depths from 3 to 9 feet, contains 153,000 gallons of water, is 100 per cent swimmable and 77.3 per cent wadable. The floor around the pool is 8½ feet wide. The bath-house has a net area of 2,184 square feet, equivalent to a building 25 x 94 feet. The pool includes a children's wading pool 5 x 20 feet, with a volume of 562 gallons of water. No wood was used in the construction of the pool or the bath-house.

This pool has a rated capacity of 376 persons, based on one for every 10 square feet of water surface, 3 to 5 feet deep, and one person for every 30 square feet of deep water. This load capacity can be turned over three times a day, giving a capacity of 1,130 people daily.

Actually, the patrons at any one time are divided about as follows: 25% in the bath-house, going and coming; 25% in the pool; 50% lounging, talking and amusing themselves on the concourse floor. An average of 1½ hours is spent by a person at the pool site.

Here are the areas and the equipment involved in the bath-house:

In an entrance lobby 18 x 20 feet are a counter and shelving for suits, towels and supplementary baskets, a spectators' stairway to the pool, and a corner for lounging. To the left are the women's dressing quarters, 7 x 72 feet. Here are vanity shelves, 72 steel lockers 12 x 15 x 36 inches, and 12 private dressing stalls. Next is a toilet room 7 x 27 feet, with two showers, two toilets, lavatories, footbath, and stairway up to the pool. Alongside is the public toilet for women.

Returning to the lobby, at the right is the men's locker room, 7 x 65 feet, in which are vanity shelf, 108 lockers and 9 changing benches. Next to this is a toilet room, 7 x 36 feet, containing three showers, two urinals, two toilets, lavatory, footbath, and stairway up to the pool. Next to this is the men's public toilet. At the rear are filter plant, pump, motor, chemical pots, chlorinator, electrical controls.

On the pool level and around the pool along the outside edge of the concourse floor is a two-line modernistic concrete railing inclosing also the children's wading pool. This is the first thing the bathers see on coming up to the pool. It is 6 to 12 inches deep and fenced in.

Around the edge of the pool are six ladders, eight depth signs, a springboard, a high-dive, a guard-rope and floats across the pool, separating the wading bathers from the deep end, and two floodlight standards with two 2,000-watt floodlights each, to flood the four 30-yard swimming lanes. There are also eleven 250-watt railing lamps.

To build the pool required 300 cubic yards of excavation, or about one-third of what would have been required in the conventional sunken pool. There is 51 cubic yards of gravel and cinder sub-drainage under all the floors. Construction took 165 cubic yards of concrete, 9 tons of reinforcing steel, 15,000 brick, 433 square feet of steel sash, 535 lineal feet of drainage tile, and 250 feet of 4-inch and 6-inch sewer tile.

The filter plant, built right on the job and of Wesley Bintz design, turns the water over every eight hours. The water is introduced into the pool at three points at the shallow end and through two inlets at the center of the pool, and it is taken out at the deep end through a special non-suction outlet.

The pool is operated by a pool committee acting as agents for the borough. Fees are: for children, 15 cents, or $2 for a season ticket; and adults, 25 cents, or $3 for season. We have a manager, a janitor and three lifeguards. After paying all expenses, including personnel, water, gas, light, power, chemicals, cleaning supplies, the committee showed a net season profit of $550.

Bintz Swimming Pool in Woodland Park, Wellsboro, Pa.

DIMENSIONS: Pool, 60x90 Ft. Ovoid; Overall, 77'x 120'; Area, Net, 4,434.9 SqFt.; Depths, 3'-9'; Volume, 152,985 Gal.; Swimmable, 3' up, 100%; Wadable, 5' down (3428.1 SqFt.), 77.3%.

Concourse Floor, widths, 8.5'-18.2'; Area, Total. 2.591.7 SqFt.

Bathroom, Area, 2,183.9 SqFt. Net; Bldg. Equivalent 25'x94'.

Children's Wading Pool, Depths 6"-12".

Capacity, Bathers, 357 at one time, 1,000 Daily.

CONSTRUCTION QUANTITIES: Excavation, 298 CuYd; Subdrainage 51 Cu Yd; Concrete 162.5CuYd; Reinforcing Steel 10,97 Ton; Brick, 12.9M; Miscellaneous woodwork; Steel Sash 433 SqFt; Drain and Sewer Tile, 812 LinFt; Carborundum rubbing, 1,800 SqFt; Painting 11,000 SqFt.; and 344 lineal feet of modernistic 2-line reinforced concrete railing.

EQUIPMENT: 12 Private dressing stalls for the women; 6 toilets; two set of urinals; 4 lavatories; 5 showers; with all interconnecting piping, water service, waste and vent lines; Wading pool and foot-bath connections; 12 scum gutter outlets; 6 ladders, high and low springboards; guard rope with floats; 4-1000 watt floodlights, 11 railing lights; 23 Bath-room lights; 180 lockers 12" x15"x36"; and

Purification plant, gravity system, built locally, halved sponsor's contribution, 8-hour turnover, 20,000 gal./hr., includes filtration, sterilization, chemical tanks, guages, pump, motor, valves, piping, etc., complete ready for operation.

WESLEY BINTZ
Consulting Engineer, Civil
Swimming Pool Designs Exclusively
BINTZ POOL—PAT. NO. 1,572,463
Lansing, Michigan

Be Sure to Note These Advantages

Councilmen—First Ward
F. H. KENNEDY
EARL L. BLISS
S. L. BOOM, President

Councilmen—Second Ward
F. C. WILLIAMS
WM. L. SUHR
FRED BEISWANGER

Borough of Wellsboro

HARRY W. BAILEY, BURGESS

WELLSBORO, PA.

Street Commissioner
J. R. CROSETTO
Treasurer
C. R. BENNETT
Secretary
J. R. CROSETTO

"More than Satisfactory" City Engineer.

Mr. Wesley Bintz, Consulting Engineer,
116½ N. Washington Avenue,
Lansing, Michigan.

Dear Mr. Bintz:

Having been in public service since 1923 I am fully aware of the reluctance of "John Public" to give a fellow a pat on the back for a job well done but he at all times has a critical eye open for criticism at the slightest provocation. It is with this thought in mind that this letter is prompted, trusting that you, like the rest of us, fully appreciate a complement for your efforts.

I assume that you have noted an article in the current issue of The American City magazine entitled "Why Wellsboro Built a Straw-Hat Swimming Pool". This article was devised after two complete years of successful operation of this pool and touches upon some of the high-lights of our experience.

You will recall the events leading up to the construction of this pool. We had concluded that a conventional type rectangular pool was the proper pool for Wellsboro when our attention was directed to your design. You will further recall that you were invited to come to Wellsboro to explain the features of your pool. I must admit here that I was extremely dubious over some of the seemingly fantastic statements claimed by you for this pool. However, permit me to state here that any doubts which I may have had have been fully removed.

Claims Prove True

The construction, including equiment, involved an expenditure of $17,000, $8,000 of which was supplied by the Borough and $9,000 by the W. P. A. It should be interesting to note that our contribution was obtained through popular subscription. (Includes Engineering)

Cost of Pool

In reviewing a few of the statements in The American City article I will repeat here that some of the most notable features that we recognize in your design are as follows: (Ten features listed here-in Article). p.2

Many Proven Advantages

It has been particularly interesting to note the ease of operation and the definite control over bathers and spectators which is afforded by your compact design. In studying pool operation previous to the acceptance of your plans, I have found that most of the so-called "headaches" are absent. p.3

Ease of Operation

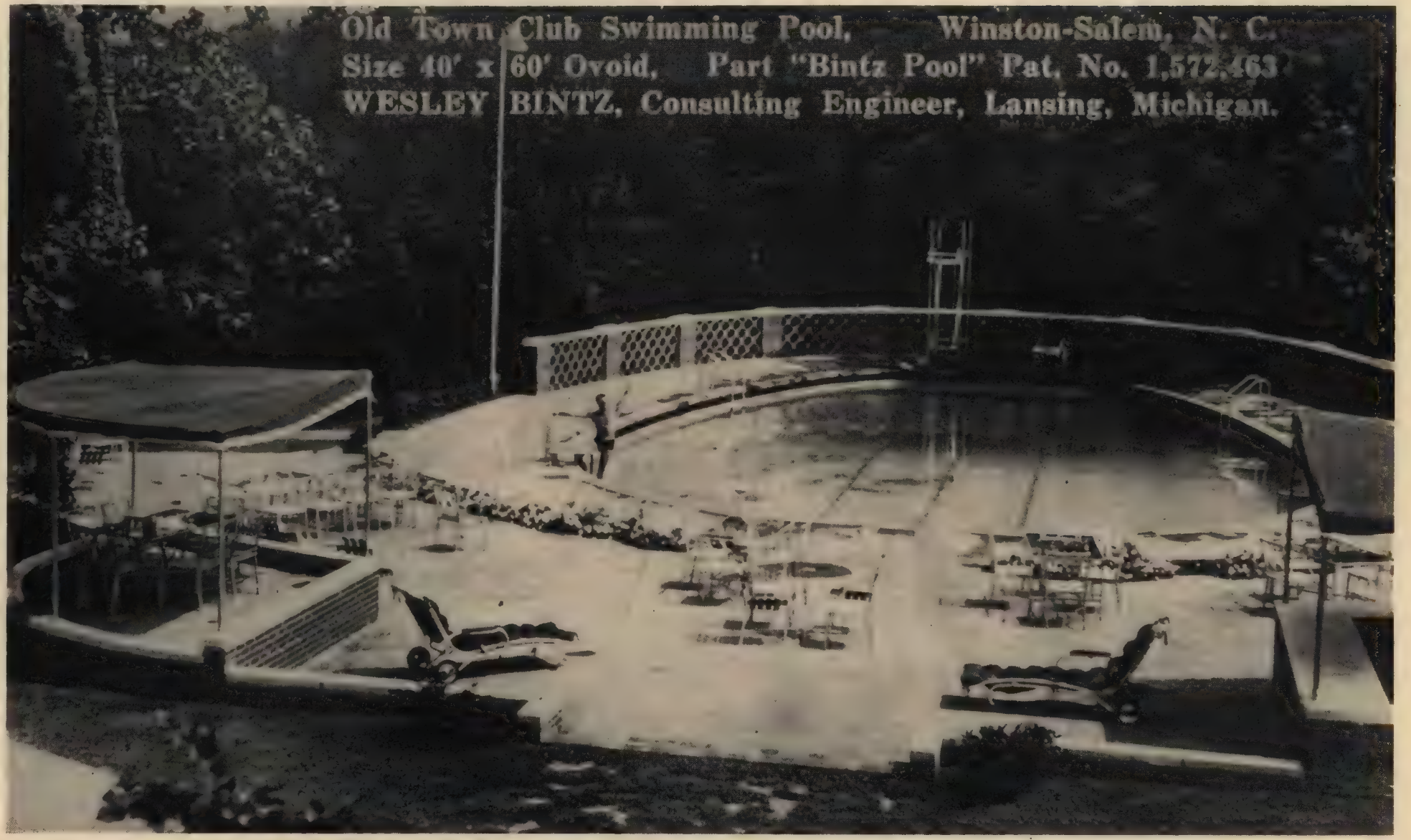
Our inhabitants are very proud of this recognized asset to our community and the fears of some of our pessimists that a municipal pool would be a "white elephant" have been wholly removed, the pool having produced a net profit, above all costs, of approximately $550.00 for each year, even in view of the low charge for admission.

Net Income

Permit me to extend my personal appreciation and the appreciation of the people of this community for your excellent services and you may rest assured that I shall be happy to advise any persons who may inquire of the many advantages of your design and of the efficient manner in which you guided our work.

Very truly yours,

J. R. Crosetto,
Secretary
City Engineer



A COUNTRY CLUB POOL IN THE OVOID SHAPE

This pool built for Old Town Country Club, Winston-Salem, N. C., is 40' x 60' Ovoid, with an area of 2,096 square feet, bathhouse in the BINTZ POOL design with 830 square feet for children, guests, and purification system, with concession stand (at right), special area for orchestra (at left), and lounge area in the foreground.

WESLEY BINTZ, Consulting Engineer, Civil, 301 S. Washington Ave., Lansing 25, Mich.

Preprinted from SWIMMING POOL DATA & REFERENCE ANNUAL, 1950

One of Two "Bintz" Swimming Pools (530730q)
Boise, Idaho
60' x 90' Ovoid "Bintz Pool" Pat. No. 1,572,463
WESLEY BINTZ, P. E., Consulting Engineer, Civil,
Lansing, Mich.

WESLEY BINTZ

REGISTERED CIVIL ENGINEER

Consulting Engineer, Civil

Swimming Pool Designs and Consultation Exclusively

SINCE 1923

BINTZ POOL, as represented by PAT. NO. 1,572,463

Lansing, Michigan

B.C.E., M.S. in E. M. Eng. Soc.

''BINTZ POOLS''

ARCHITECTURALLY MONUMENTAL
25%-40% CHEAPER
POOL WALL FITTINGS SERVICEABLE
OUTFALL 8' SHALLOWER
ELIMINATES SURFACE DIRT
LESS EXCAVATION BY 2/3
NO UNSIGHTLY FENCE
CONCRETE EQUIPMENT
OUT OF FROST ACTION
GROUND SPACE 1/3 LESS
IDEAL FOR MEMORIAL POOLS
MUCH EASIER OPERATION
COMPACT, ONE UNIT
MUCH LESS MAINTENANCE
ALL PERMANENT CONSTRUCTION
ANY SHAPE OR SIZE
BATHROOM MUCH LARGER
ESPECIALLY DESIGNED RECIRCULATION
PREFECTED DESIGN & LAYOUT

27 YEARS

SAME ADVANTAGES AS OVOID. IF RECTANGULAR POOL = 100 PERCENT THEN OVOID = 110% AND VASOID = 108%

''VASOID POOLS''

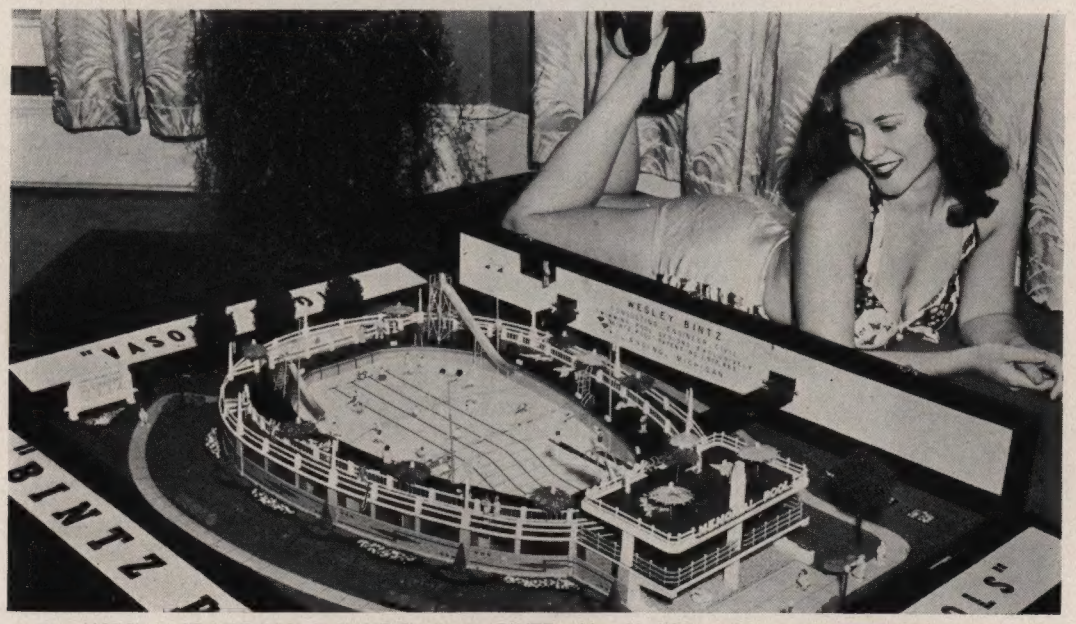
COMPARISONS ARE WITH RECTANGULAR POOL AND BATH HOUSE OF EQUAL SIZE PERMANANCE, AND DETAILS

''OVOID POOLS''

BETTER DEPTH DISTRIBUTION
BETTER FOR AQUATIC MEETS
GREATER BATHER CAPACITY
LESS WATER REQUIRED
EASIER LANDSCAPED
POOL WALL SHORTER
MORE WATER AREA
STREAMLINED
CHEAPER-TO BUILD

SINCE 1923

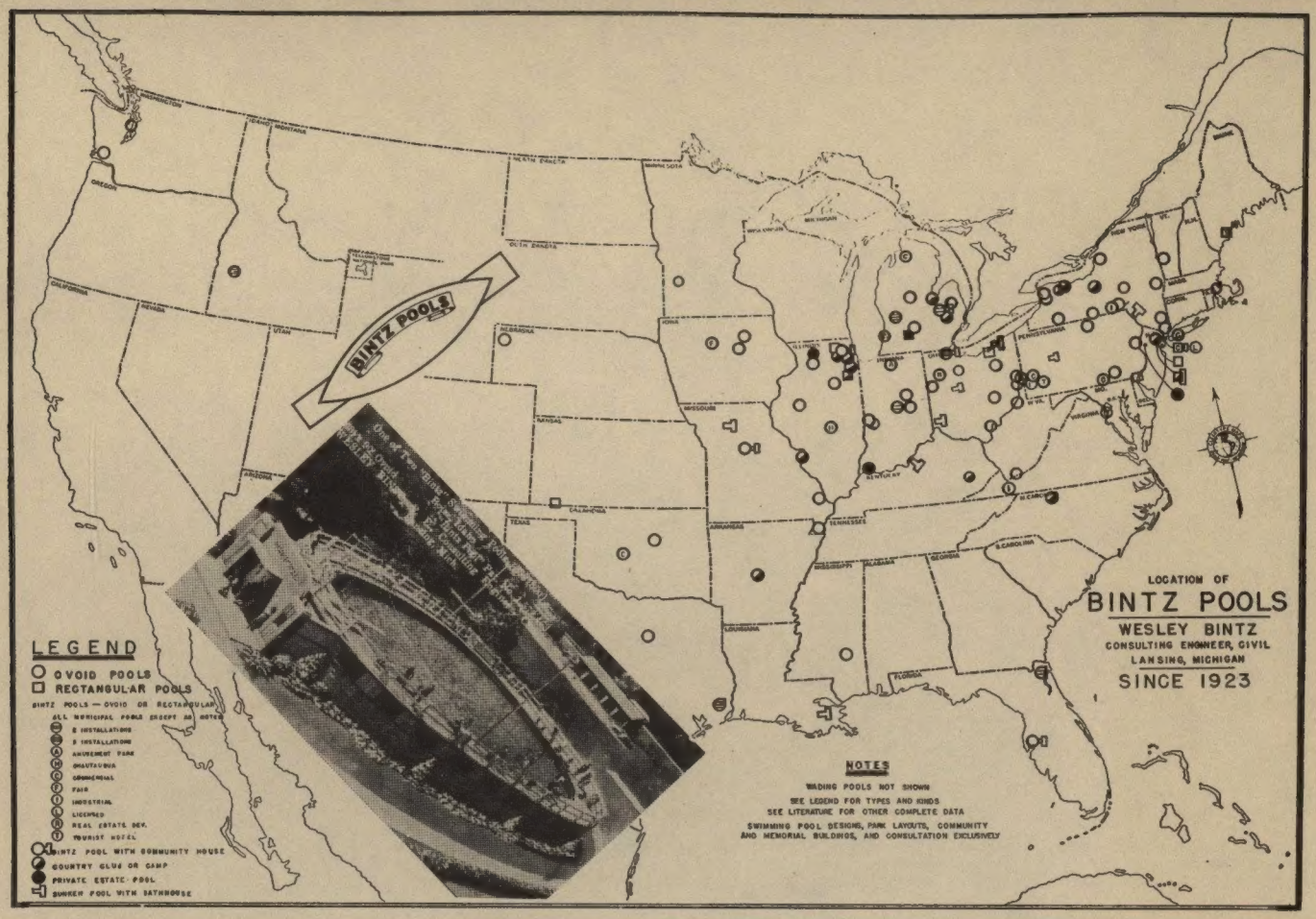
FREE — "MODERN SWIMMING POOLS" — Our 70-page pamphlet with complete and detailed information on BINTZ and OVOID Pools. Actual photographs also included.



MODEL of "BINTZ POOL," OVOID-Shape, by BINTZ. Live Model by others. Pictures upon request.

Preprinted from the 1950 Municipal Index

THERE IS ALWAYS A LEADER



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::::: RESUME' OF LOW BIDS, as received at
::::: Bremerton, Wash., 1/6/53, two at Boise, Idaho, 1/13/53, and
::::: Middleport, Ohio, 3/5/53
::::: All "BINTZ POOLS", 60' x 90' Ovoid. C.F. 8'-6"

****

a.	BREMERTON	BOISE	MIDDLEPORT	ESTIMATE-b
GENERAL CONTRACT c.	$36,448.00x	$31,207.68	$58,400.00z	$32,585.84
Painting		1,100.00	600.00e	1,890.62
Plumbing-General	12,181.00y	10,302.00	z.z	10,699.52
-Public Toilets	y.y	1,324.00	z.z	957.92
-Filter Installation	y.y	1,814.00	z.z	1,719.20
Water Heating-Showers d.	(1,344.00)	(1,494.00)	none	1,274.62
-Pool d.	(3,320.00)	(3,084.00)	none	(In Total)
Electrical	1,909.00	1,876.00	z.z	2,540.93
Pool Equipment	454.00	778.00	453.50	566.50
Baskets and Racks	1,129.44	1,200.00	1,123.36	1,198.48
Purification System	7,550.00	11,804.00	6,417.00	10,403.90
Vacuum Cleaner	245.00	396.00	315.00	453.20
Bronze Plates	x.x	125.00	z.z	101.97
Piling d.	(4,250.00)			
Sales Tax d.	(2,007.64)			
Total as per "a"	$59,916.44	$61,926.68	$67,308.86	$63,118.08
Plus 20% f	11,983.29	12,385.34	13,461.77	12,623.62
Total	$71,899.73	$74,312.02	$80,770.63	$75,741.70
Total including "d"	$82,821.37	$78,890.02		

NOTES: a. All General Contracts and/or sub-contracts are about alike. Cost of this project is $75,000 complete, not including "d" or local conditions. b. As prepared for Boise's two pools. e. Does not include items listed below, except as noted by x or z. d. Not in original presentation. e. Pool and Railing only. f. Engineering, Service Lines and Landscaping. x,y,z. Included in item marked by same letter.

LABOR AND MATERIAL COSTS: Cement $4.10/bbl; Aggregate $2.24/CuYd; Lumber $120/M; 8" Concrete Block $0.28; Carpenters $2.40/hr; Masons $3.00/hr; Common Labor $1.85/hr.

POOL DATA: Overall 77'x120' Ovoid; Pool 60'x90' Ovoid; pool area 4,434. SqFt; pool depths 3-11'; volume 173,508 gal., swimmable 100%, wadable 70.8%. Concourse floor widths, 8.5-19', area 2,591.7 SqFt. Bathroom area 2,183. SqFt.net. Bldg. Equiv. 25'x95'. Capacity (1:10 shallow; 1:30 deep) bathers, at one time 357, daily 1,075. For communities of 8-10,000 population, includes outlying population.

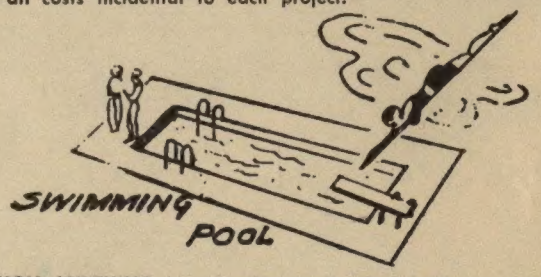
****

SINCE 1923. The map above locates the many Bintz designed swimming pools which have been built the past ⅓ century. This wealth of experience, probably unequalled, is available to those who contemplate the construction of a swimming pool for any use.

A SWIMMING POOL is not a hole in the ground, but more complicated in design, in certain ways, than a water treatment plant, or a sewage disposal plant. It is strictly an engineering project, and requires years of experience to properly design, specify, detail and co-ordinate pool, bathhouse, concourse floor and equipment.

IN 1953, of the ten Bintz designed pools completed that year, four were of similar size, shape, type, detail and equipment, but located in widely separate parts of the country.

ACTUAL COSTS of these four pools are tabulated at left with complete breakdown of items. Note how low bids parallel the Engineer's Estimate. Also bear in mind the total costs are for a complete operable pool and bathhouse to serve a population up to 10,000, and include all costs incidental to each project.



WE DESIGN ANYTHING in swimming pools, Community and Memorial Buildings, Band Shells, Park and Recreation Layouts and Developments and Combination Indoor & Outdoor Swimming Pools. We have designed numerous Sunken Pools and Bath-houses. Our experience counts just the same. But we, as well as others, can't beat our own "BINTZ POOL" Design.

FREE-"MODERN SWIMMING POOLS."—Our 70-page pamphlet with complete and detailed information on "BINTZ POOLS" and "OVOID" and "VASOID Shape" Pools. Many pictures and actual photographs

WESLEY BINTZ, P. E., Swimming Pool Designs & Consultation Exclusively
301 S. Washington Ave., Lansing, Mich. . . . **PROFESSIONAL ENGINEER**